Data on the Walleye *Stizostedion vitreum* (Mitchill), and Other Fish Species from Mosquito Creek, Northwest Territories, 1973-78

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by

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ABSTRACT

Falk, M.R., D.V. Gillman, and C.J. Read. 1980. Data on the walleye, *Stizostedion vitreum* (Mitchill), and other fish species from Mosquito Creek, Northwest Territories, 1973-78. Can. Data Rep. Fish. Aquat. Sci. 186: v + 44 p.

Mosquito Creek, situated on the North Arm of Great Slave Lake, supports a popular walleye sport fishery in the early spring for the residents of Yellowknife. The spawning population of walleye in Mosquito Creek was studied from 1973 to 1978 through a creel census and biological sampling program which included fish fence (weir), gillnet, hoop net and fyke net operations and tagging. Data on the biology of walleye and other fish species collected - longnose sucker, northern pike, round whitefish and white sucker, as well as tagging information are presented in tabular form. Biological data include length, length-weight relationship, age, mortality, fecundity, spawning migration and movement summaries. The data are intended to be used as background information for concurrent investigations.

Key words: angling; catch composition; catch/effort; sport fishing statistics; exploitation; fishery management; monitoring; population structure; size distribution; tagging.

RESUME

Falk, M.R., D.V. Gillman, and C.J. Read. 1980. Data on the walleye, *Stizostedion vitreum* (Mitchill), and other fish species from Mosquito Creek, Northwest Territories, 1973-78. Can. Data Rep. Fish. Aquat. Sci. 186: v + 44 p.

Au début du printemps, beaucoup d'habitants de Yellowknife pratiquent la pêche sportive du doré dans le Mosquito Creek, affluent du bras nord du Great Slave Lake. Nous avons étudié la reproduction du doré dans ce ruisseau de 1973 à 1978 par le recensement des prises, la capture au moyen de fascines, de filets maillants et de verveaux avec ou sans filet-barrage et le marquage. Nous présentons, sous forme de tableaux, les données biologiques du doré et d'autres espéces telles que le meunier rouge, le grand brochet, le ménomini rond et le meunier noir ainsi que les résultats du marquage. Les données biologiques comprennent la longueur, le rapport longueur-poids, l'âge, la mortalité, la fécondité, et les migrations et les déplacements liés au frai. Ces données serviront de renseignements de base pour les investigations en cours.

Mots-clés: pêche à la ligne; composition des prises; rapport prises/effort; statistiques sur la pêche sportive; exploitation; gestion des pêches; contrôle; structure de la population; distribution des tailles; étiquetage.

INTRODUCTION

In 1973 a preliminary creel census and biological sampling survey was carried out on Mosquito Creek, situated on the North Arm of Great Slave Lake, to determine the angler-harvest of spawning walleye, *Stizostedion vitreum* (Mitchill). This survey permitted recognition of Mosquito Creek as an important recreational fishery as well as a spawning stream for walleye. In 1974 and 1975 the scope of the study was expanded to include enumeration of the spawning walleye population and tagging to determine movements and distribution in Great Slave Lake. From 1976 to 1977 gillnetting was carried out to determine the post-spawning distribution of walleye. The study continued to 1978 with further creel census and biological sampling surveys.

This report provides a summary of catch/effort and biological data collected on walleye and other fish species from Mosquito Creek and vicinity during the period 1973-1978. Analyses of data on walleye and recommendations for future management and study are contained in a separate report (Falk et al. 1980).

MATERIALS AND METHODS

Study of the spring fish migrations in Mosquito Creek was initiated in May 1973. A creel census was conducted each year to determine total angler-effort and angler-harvest by species. During 1974 and 1975 counting fences (weirs) were installed to enumerate migrant fish species and to determine their movement patterns. Additional capture methods such as gillnet, fyke net and hoop net, have been used since 1976 to obtain fish for tagging and biological sampling. Biological information has also been collected on fish populations in the North Arm of Great Slave Lake by gillnetting in 1976 and 1977. Following is an explanation of the equipment and procedures employed in each segment of the investigation.

CREEL CENSUS OPERATIONS

Partial creel census operations were conducted in 1973 and 1974. The census was expanded during the next four years to gather more complete information on angler-effort, catch by day and by season. One or two person crews were stationed at the creek for the majority of the fishing season and utilized creel census techniques and standard forms adapted from Falk et al. (1973, 1974a). Field personnel either walked or canoed the creek from the mouth to about 2.5 km upstream to cover the major fishing areas. Upon completion of a days' fishing, as many anglers as practical were questioned as to the number of fish caught, released, retained and consumed by species. As well, hours fished and place of origin of fishermen were recorded. Census workers also recorded the number of anglers observed but not interviewed. Normally, interviews were conducted at or near 1300, 1800 and 2000 h but during peak angler-activity interviews were conducted more frequently. In addition, a portion of the anglers' catch was sampled for later biological analysis.

COLLECTION METHODS

During 1974 and 1975 counting fences were installed in the center zone of Mosquito Creek approximately 0.5 km upstream from the mouth (Fig. 2). In 1974 the fence was a single trap operation designed to enumerate upstream migrants only. The structure was completed on 19 May and continued until 23 May when a sudden downstream movement of fish forced the removal of the fence. The trap was operated on an irregular basis conforming to the number of fish entering the trap. In the following year a two-way fence was installed at the same location to enumerate both the upstream and downstream movements of fish. Initial fence construction was completed on 12 May but increasing water levels and resultant washouts prompted relocation of the structure 200 m upstream. The second fish fence was completed on 16 May prior to the removal of the original fence to permit continuous monitoring of the spawning/feeding migrations until operations ceased on 12 June.

Fence material consisted of 25 x 25 mm welded wire fabric, wired to spruce pole stringers forming panels 3.5 m long by 1.5 m high. Steel snow fence stakes were driven into the stream bed, 1-2 m apart, and the panels were wired to them. Panels were attached together and fastened to the traps located at the apex of the fence wings. Both panels and traps were skirted on the bottom with a 1 m width of poultry wire. Once in place, sand bags were positioned on the skirting to anchor the fence and trap and to ensure complete blockage of fish movement under the lower edge of the fence.

Traps were constructed of 25 x 25 mm welded wire fabric over a frame of 102 x 51 mm lumber and a floor of 19 mm thick plywood. Overall dimensions of the traps were 2.6 x 1.3 x 2 m high. Traps were constructed of individual panels and were bolted together prior to placement in the stream. The trap entrance was formed by two doors set at an angle to provide a vertical opening of 102 mm in width. Rear trap doors consisted of two vertical sliding panels that could be removed separately to permit handling and free passage of fish if necessary.

During 1975 traps were checked five or six times per day and more frequently during peak periods of fish movement. As the numbers of fish declined, checks were reduced to three times per day. Trap check procedure involved two persons; one working inside the trap and the other positioned on top serving as a recorder. A scoop (130 x 60 cm) constructed of plastic pipe lined with Rochelle netting was used to transfer fish through the rear door of the trap. This method reduced the amount of handling and allowed direct observation of the fish for recording species, counting fish, observing tagged fish, determining sex and maturity externally and examining for abnormalities. On five occasions during peak periods of fish movement traps were unable to accommodate all fish passing through the fence. As a result, small openings were made below the top of the fence and adjacent to each shore to permit continuous migration. Personnel stationed at each opening,

identified and counted fish as they passed through the fence. The fence and traps were inspected for openings and were cleaned of debris daily during periods of little or no fish movement. Each day a portion of the upstream and downstream count was sampled for later biological analysis.

Both hoop and fyke nets were operated during 1978 in Mosquito Creek to obtain fish for tagging and additional biological sampling. The fyke net was in operation from 19 May to 25 May in the mouth of Mosquito Creek. This net was constructed of 25 mm nylon mesh with a main lead of 80 m. The hoop net was positioned 0.5 km upstream and was monitored from 20 May to 27 May. Diameter of the hoop was 1.7 m with a 10 m lead. Neither trap completely blocked the stream and fish enumeration was not attempted during sampling and tagging operations. During periods of peak movement trap leads were lifted to allow passage of fish up the creek. The majority of fish captured were sampled for later biological analysis.

From June to August in 1976 and 1977 gillnets were set between Waite Island and Frank Channel (Fig. 1). Gillnet gangs consisted of 50 m panels of 38, 64, 89, 114 and 140 mm (stretched measure) meshes. Sets were in 2 to 3 m of water over substrates of sand, silt and clay where rooted aquatic macrophytes were abundant. Water was always quite turbid and water temperatures ranged from 15 to 22° C. Nets were usually set in the late evening and picked up the following morning. While all species caught were sampled for later biological analysis only walleye data from 1976-77 were used for the present study.

PHYSICAL AND CHEMICAL DATA COLLECTION

Water temperatures were taken daily during sampling periods from 1974 to 1978. A direct-reading thermometer was used each year except in 1975 when a min-max thermometer was installed at the trap location. Water temperatures were taken just below the surface, two to four times per day. Water level, water velocity and chemical characteristics were recorded during the 1975 trap operation. A gauging staff was located 5 m below the fish fence and readings were taken at each trap check. Four water samples were collected on 24 May 1975, sealed in airtight polyethylene containers and forwarded to the Water Analysis Unit, Department of the Environment, Yellowknife for chemical analysis.

TAGGING OPERATIONS

Walleye collected by angling, fish fence, hoop net, fyke net and gillnet from 1973 to 1978 were tagged. A Dennison tagging gun (Model FDM-68) was used to apply numbered fluorescent orange Floy tags. Tags were inserted into the left side of the fish near the base of the dorsal fin and anchored through the posterior pterigiophores. Both the tags and tagging gun were held in a mild dissinfectant solution and rinsed in fresh water prior to each tag insertion. For all fish tagged, fork length and, when possible, weight were recorded, scales were taken, and sex was determined by external characteristics or observations of extruded eggs or milt. All angled fish and the majority of those captured at the fish fence (1974-75) were released immediately after tagging. During 1978 walleye were retained 3 to 6 hours in 1 x 3 x 2 m holding pens before tagging. Portions of walleye tagged in 1975 and 1978 were held in enclosures for post tagging observation. Out of 60 walleye held for 6 to 12 hour periods no mortality or overt reaction to tagging was observed. Tagging programs were advertised throughout the immediate area and a two dollar reward was offered for returned tags.

BIOLOGICAL SAMPLING PROCEDURES

A portion of the total catch from each collection method was dead sampled by species for later biological analysis. Fork length (±1 mm) and weight (±25 g) were recorded. The incidence of external blemishes was recorded from 1976 to 1978. Scales were removed from below the lateral line and forward of the dorsal fin and stored in coin envelopes for later age determination as per Lagler (1956). In 1978 pelvic fins and dorsal spines were also taken from some walleye as comparative aging structures. Sex and stage of maturity were determined by examination of the gonads and coded according to the following maturity scale adapted from Falk et al. (1974b):

Sex F	Sex M	Maturity	Description of gonads
1	6	immature	virgin fish; gonad thin and threadlike, often incomplete.
2	7	maturing	virgin or non-virgin fish not spawning in the current year; gonad full length, firm; eggs small; gonads partially fill body cavity.
3	8	mature	fish spawning in current year; gonad full size, filling body cavity; eggs prominant, full size.
4	9	ripe	mature fish in spawning condition; eggs translucent; milt or eggs expelled under slight pressure.
5	10	spent	mature fish, completed spawning condition; gonads collapsed with ruptured blood vessels prominant residual eggs.
0		unknown	

In 1975 ovaries were removed from 15 ripe female walleye taken from the upstream trap. Weight of each ovary (±5 g) was recorded prior to wrapping in cheesecloth and preservation in Gilson's fluid for later fecundity determination.

LABORATORY PROCEDURES

Scales collected from walleye were cleaned, placed between two glass slides and the annuli counted from the image (x60) produced by a

Eberbach microprojector. Ages were also determined from cross sections of pelvic fin rays and dorsal spines following the procedures described by Campbell and Babaluk (1979).

Fecundity was determined from ovaries collected from 15 mature walleye using the gravimetric method of estimation described by Healey and Nicol (1975). Ovarian tissue was removed from the egg mass and brought to a constant weight by air drying. A subsample of eggs was counted and weighed and the total number of eggs determined by direct extrapolation. Accuracy of the method was tested by comparing estimates to total egg counts for three ovary samples.

DATA ANALYSES

Data collected during the study were manipulated using an IBM 370-168 computer based at the University of Manitoba and a terminal located at the Freshwater Institute. The Statistical Analysis System (1972) was used to generate length, weight, age, sex and maturity summaries and perform basic calculations and statistical analyses. Some analyses were performed using a Hewlett-Packard (Model 9810-A) programmable calculator.

Annual mortality rates (natural and fishing) were calculated using the methods outlined by Robson and Chapman (1961). The total annual mortality rate is defined as the number of fish which will die during the year, divided by the initial number (Ricker 1958).

Length-weight relationships were described by the following power equation:

$$\text{Log}_{10}W = a + b\,(\text{Log}_{10}L);\ s_b =$$

where: W = weight in grams

L = fork length in millimetres

a = Y-intercept

b = slope of the regression line, and

s_b = standard deviation of b.

Relative condition factors (K) were determined from the formula:

$$K = \frac{W \times 10^5}{L^3}$$

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In 1973 and 1974 field studies were designed and field work was carried out under the direction of S. Stephansson. S. Davies supervised field operations in 1975, and participated in data collection and analysis. R. Moshenko directed the program from 1976 to 1978. The authors appreciate the assistance given by summer staff: B. Corbett, D. Rudy, H. Hommel, R. Mulders, F. Hnytka, R. Sie, A. Mains and D. Dechief. B. Wong with the Northwest Territorial Wildlife Service provided assistance and additional summer staff in 1976-77. Mr. D. Brackett, Environmental Protection Service, Yellowknife, provided field equipment and assisted in stream flow measurements and creel census operations. Thanks are extended to Fisheries and Oceans District Office, Yellowknife, for their cooperation and the assistance of Fishery Officers D. Green and D. Desjardins. J. Babaluk and R. Erickson, Fisheries and Oceans, Winnipeg, determined the ages of walleye by dorsal spines and fin rays.

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Table 1 . Summary of information pertaining to the spring fishing season and the creel census by year from Mosquito Creek, 1973-78.

Year	Fishing Season			Creel Census Period			% of Fishing Season Censused	% of Census Period Worked	No. Anglers (Season)	No. Interviews (Census Period)
	From	To	Days	From	To	Days				
1973	15 May	1 June	18 (14)[a]	21 May	27 May	7 (7)[b]	39	100	105	41
1974	15 May	2 June	19 (12)	18 May	2 June	16 (14)	84	74	149	93
1975	11 May	7 June	27 (13)	11 May	12 June	32 (13)	100	100	173	173
1976	6 May	23 May	18 (16)	7 May	23 May	17 (12)	94	71	288	250
1977	13 May	28 May	16 (15)	13 May	28 May	16 (13)	100	81	295	279
1978	13 May	2 June	20 (17)	13 May	2 June	20 (18)	100	90	269	252

[a] Days actually fished.

[b] Days censused.

Table 2 . Summary of creel census results from Mosquito Creek, 1973-78.

Year	Species	No. Sampled	Mean Weight (g)	Census Period: No. Interviews	No. Caught	No. Released	No. Retained	% Retained	Hours Fished	Hours Fished per Angler-Day	No. Caught per: Angler-Day	Angler-Hour	No. Retained Angler-Day
1973	Walleye	109	769	41	223	12	211	95	98	2.4	5.4	2.30	5.1
1974	Walleye	68	971	93	226	16	210	93	311	3.3	2.4	0.73	2.3
	Northern Pike	-	-	-	41	18	23	56	-	-	0.4	0.11	0.2
	Longnose Sucker	-	-	-	2	2	0	0	-	-	< 0.1	0.01	0
1975	Walleye	44	873	173	282	27	255	90	547	3.2	1.6	0.52	1.5
	Northern Pike	-	-	-	100	50	50	50	-	-	0.6	0.18	0.3
	Longnose Sucker	-	-	-	26	17	9	35	-	-	0.2	0.05	0.1
1976	Walleye	111	853	250	454	7	447	99	733	2.9	1.8	0.62	1.8
	Northern Pike	-	-	-	87	66	21	24	-	-	0.3	0.12	0.1
	Longnose Sucker	-	-	-	9	9	0	0	-	-	< 0.1	0.01	-
1977	Walleye	183	952	279	366	0	366	100	691	2.5	1.3	0.53	1.3
	Northern Pike	-	-	-	253	207	46	18	-	-	0.9	0.37	0.2
	Longnose Sucker	-	-	-	4	4	0	0	-	-	< 0.1	< 0.01	-
1978	Walleye	103	837	252	333	17	316	95	563	2.2	1.3	0.59	1.3
	Northern Pike	-	-	-	216	152	64	30	-	-	0.9	0.38	0.3
	Longnose Sucker	-	-	-	2	2	0	0	-	-	< 0.1	< 0.01	-
Total	Walleye	618	879	1088	1884	79	1805	96	2943	2.7	1.7	0.64	1.7
	Northern Pike	-	-		697	493	204	29			0.6	0.24	0.2
	Longnose Sucker	-	-		43	34	9	21			< 0.1	0.01	< 0.1

Table 3 . Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by angling from Mosquito Creek, 1973.

Length Interval (mm)	Males							Females							Combined							F/M Ratio
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	
340-349	2	343	2.8	463	17.7	1.15	100.0	-	-	-	-	-	-	-	2	343	2.8	463	17.7	1.15	100.0	-
350-359	2	353	4.2	425	106.1	0.96	100.0	-	-	-	-	-	-	-	2	353	4.2	425	106.1	0.96	100.0	-
360-369	2	366	4.2	550	0.0	1.22	100.0	-	-	-	-	-	-	-	2	366	4.2	550	0.0	1.12	100.0	-
370-379	12	374	2.8	552	53.5	1.06	91.7	-	-	-	-	-	-	-	12	374	2.8	552	53.5	1.06	91.7	-
380-389	11	384	3.1	614	47.6	1.08	100.0	-	-	-	-	-	-	-	11	384	3.1	614	47.6	1.08	100.0	-
390-399	12	394	2.6	648	35.5	1.06	100.0	1	395	-	650	-	1.06	100.0	13	395	2.5	648	34.0	1.06	100.0	0.08
400-409	12	406	2.2	706	43.5	1.06	100.0	-	-	-	-	-	-	-	12	405	2.2	706	43.5	1.06	100.0	-
410-419	14	415	2.9	770	51.0	1.08	100.0	1	413	-	700	-	0.99	100.0	15	415	2.8	766	52.4	1.08	100.0	0.07
420-429	10	425	2.9	799	94.0	1.04	100.0	1	428	-	800	-	1.02	100.0	11	425	2.9	799	89.2	1.04	100.0	0.10
430-439	9	433	3.4	904	57.7	1.11	100.0	2	433	3.5	863	88.4	1.07	100.0	11	433	3.2	896	61.0	1.11	100.0	0.22
440-449	7	444	3.0	924	68.4	1.06	100.0	-	-	-	-	-	-	-	7	444	3.0	924	68.4	1.06	100.0	-
450-459	3	454	1.5	1008	152.8	1.08	100.0	1	450	-	1100	-	1.21	100.0	4	453	2.2	1031	132.9	1.11	100.0	0.33
460-469	3	465	4.6	1058	184.3	1.05	100.0	1	465	-	950	-	0.94	100.0	4	465	3.8	1031	159.9	1.02	100.0	0.33
470-479	2	473	4.2	1175	106.1	1.11	100.0	1	473	-	1250	-	1.18	100.0	3	473	3.0	1200	86.6	1.13	100.0	0.50
490-499	1	491	-	1375	-	1.16	100.0	-	-	-	-	-	-	-	1	491	-	1375	-	1.16	100.0	-
500-509	1	501	-	1350	-	1.07	100.0	-	-	-	-	-	-	-	1	501	-	1350	-	1.07	100.0	-
550-559	1	554	-	1950	-	1.15	100.0	-	-	-	-	-	-	-	1	554	-	1950	-	1.15	100.0	-
Total	104						99.1	8						100.0	112						99.1	0.08
Mean		411	34.1	761	223.7	1.07			436	26.0	897	202.9	1.07			413	34.1	770	224.2	1.07		

Table 4. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by angling from Mosquito Creek, 1974.

Length Interval (mm)	Males							Females							Combined							
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
340-349	1	348	-	460	-	1.09	0.0	1	340	-	430	-	1.09	0.0	2	344	5.7	445	21.2	1.09	0.0	1.00	-
350-359	-	-	-	-	-	-	-	1	359	-	500	-	1.08	100.0	1	359	-	500	-	1.08	100.0	-	-
370-379	2	370	0.0	555	7.1	1.10	50.0	-	-	-	-	-	-	-	2	370	-	555	7.1	1.10	50.0	-	-
380-389	1	384	-	760	-	1.34	100.0	-	-	-	-	-	-	-	2	382	0.0	680	113.1	1.22	-	-	1
390-399	7	394	2.9	766	124.8	1.25	71.4	2	398	2.1	725	35.4	1.16	100.0	9	395	2.8	757	110.2	1.23	77.8	0.29	-
400-409	4	402	2.5	710	61.6	1.09	25.0	2	400	0.0	738	88.4	1.15	100.0	6	401	2.9	719	63.6	1.11	50.0	1.50	-
410-419	6	413	2.7	848	105.7	1.21	50.0	1	415	-	750	-	1.05	100.0	7	413	2.2	834	103.3	1.18	57.1	1.17	-
420-429	7	423	2.1	898	36.7	1.19	100.0	1	426	-	1150	-	1.49	100.0	9	423	2.7	932	89.5	1.23	-	1.29	1
430-439	5	433	2.5	1040	204.3	1.29	100.0	2	433	3.5	870	99.0	1.08	100.0	8	433	2.2	980	179.4	1.21	-	1.60	1
440-449	1	440	-	1300	-	1.53	100.0	-	-	-	-	-	-	-	2	441	2.8	1150	212.1	1.35	-	-	1
450-459	-	-	-	-	-	-	-	1	454	-	1000	-	1.07	100.0	2	455	0.7	1050	70.7	1.13	-	-	1
460-469	2	463	3.5	1188	53.0	1.20	100.0	-	-	-	-	-	-	-	2	463	0.7	1188	53.0	1.20	100.0	-	-
470-479	1	470	-	1300	-	1.25	100.0	1	470	-	1300	-	1.25	100.0	4	472	3.5	1238	72.2	1.18	-	1.00	2
480-489	1	484	-	1400	-	1.24	100.0	2	484	2.1	1275	35.4	1.13	100.0	5	483	2.2	1310	89.4	1.16	-	2.00	2
490-499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	496	3.5	1350	70.7	1.11	-	-	2
500-509	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	503	3.5	1325	35.4	1.04	-	-	2
510-519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	510	-	1700	-	1.28	-	-	1
530-539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	530	-	1700	-	1.14	-	-	1
550-559	-	-	-	-	-	-	-	1	555	-	2400	-	1.40	100.0	1	555	-	2400	-	1.40	100.0	-	-
Total	38						65.8	15						93.3	68						-	0.39	15
Mean		415	27.6	881	226.4	1.21			430	54.0	983	478.1	1.16			431	43.4	978	334.4	1.19			

Table 5. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by angling from Mosquito Creek, 1975.

Length Interval (mm)	Males							Females							Combined							
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
350-359	1	359	-	480	-	1.04	100.0	-	-	-	-	-	-	-	1	359	-	480	-	1.04	100.0	-	-
360-369	2	367	1.4	545	49.5	1.10	100.0	-	-	-	-	-	-	-	2	367	1.4	545	49.5	1.10	100.0	-	-
370-379	4	372	2.4	550	37.4	1.07	100.0	-	-	-	-	-	-	-	4	372	2.4	550	37.4	1.07	100.0	-	-
380-389	2	383	2.8	608	24.8	1.08	50.0	-	-	-	-	-	-	-	2	383	2.8	608	24.8	1.08	100.0	-	-
390-399	6	393	2.6	650	51.8	1.07	100.0	-	-	-	-	-	-	-	6	393	2.6	650	51.8	1.07	100.0	-	-
400-409	3	403	3.1	765	42.3	1.17	100.0	1	408	-	730	-	1.08	100.0	4	405	3.4	757	38.8	1.14	100.0	0.33	-
410-419	4	414	2.5	806	55.0	1.14	100.0	1	417	-	940	-	1.30	100.0	5	414	2.7	833	76.5	1.17	100.0	0.25	-
420-429	2	424	2.8	860	56.6	1.13	100.0	-	-	-	-	-	-	-	2	424	2.8	860	56.6	1.13	100.0	-	-
430-439	1	436	-	960	-	1.16	100.0	-	-	-	-	-	-	-	1	436	-	960	-	1.16	100.0	-	-
440-449	4	444	1.8	972	72.6	1.11	100.0	1	446	-	1080	-	1.22	100.0	6	445	2.2	1008	79.4	1.14	-	0.25	1
450-459	1	455	-	1100	-	1.17	100.0	1	453	-	1120	-	1.21	100.0	2	454	1.4	1110	14.1	1.19	100.0	1.00	-
460-469	-	-	-	-	-	-	-	2	464	5.0	1180	84.9	1.18	100.0	2	464	5.0	1180	84.9	1.18	100.0	-	-
470-479	1	476	-	1160	-	1.08	100.0	4	475	4.4	1213	66.0	1.13	100.0	5	475	3.9	1202	61.8	1.12	100.0	4.00	-
480-489	1	486	-	1280	-	1.12	100.0	1	487	-	1420	-	1.23	100.0	2	487	0.7	1350	99.0	1.17	100.0	1.00	-
490-499	1	493	-	1460	-	1.22	100.0	1	497	-	1440	-	1.17	100.0	2	495	2.8	1450	14.1	1.20	100.0	1.00	-
500-509	-	-	-	-	-	-	-	1	504	-	1680	-	1.31	100.0	1	504	-	1680	-	1.31	100.0	-	-
510-519	1	519	-	1560	-	1.12	100.0	-	-	-	-	-	-	-	1	519	-	1500	-	1.12	100.0	-	-
Total	34						94.1	13						100.0	48						-	0.38	1
Mean		413	39.7	810	267.3	1.11			465	28.2	1201	235.0	1.19			428	42.9	922	309.2	1.13			

Table 6. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by angling from Mosquito Creek, 1976.

Length Interval (mm)	Males							Females							Combined							
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
340-349	1	348	-	475	-	1.13	100.0	-	-	-	-	-	-	-	2	346	3.5	468	10.6	1.13	-	-	1
350-359	6	356	1.3	479	18.8	1.06	100.0	-	-	-	-	-	-	-	6	356	1.3	479	18.8	1.06	100.0	-	-
360-369	4	364	3.5	506	23.9	1.05	100.0	-	-	-	-	-	-	-	4	364	3.5	506	23.9	1.05	100.0	-	-
370-379	9	372	2.3	618	179.0	1.20	100.0	-	-	-	-	-	-	-	10	372	2.2	609	171.3	1.18	-	-	1
380-389	10	382	2.7	615	20.9	1.10	100.0	-	-	-	-	-	-	-	10	382	2.7	615	20.9	1.10	100.0	-	-
390-399	16	393	2.6	659	34.1	1.08	100.0	-	-	-	-	-	-	-	16	393	2.6	659	34.1	1.08	100.0	-	-
400-409	12	404	3.4	704	46.3	1.07	100.0	-	-	-	-	-	-	-	12	404	3.4	704	46.3	1.07	100.0	-	-
410-419	9	413	2.7	781	64.7	1.11	100.0	-	-	-	-	-	-	-	9	413	2.7	781	64.7	1.11	100.0	-	-
420-429	8	423	2.2	834	44.2	1.10	100.0	-	-	-	-	-	-	-	8	423	2.2	834	44.2	1.10	100.0	-	-
430-439	8	433	2.6	917	67.8	1.13	87.5	-	-	-	-	-	-	-	8	433	2.6	917	67.8	1.13	100.0	-	-
440-449	2	446	0.7	1075	35.4	1.22	100.0	1	444	-	1025	-	1.17	100.0	3	445	1.0	1058	38.2	1.20	100.0	0.50	-
450-459	1	458	-	1100	-	1.15	100.0	-	-	-	-	-	-	-	1	458	-	1100	-	1.15	100.0	-	-
460-469	2	467	3.5	1150	106.1	1.13	100.0	-	-	-	-	-	-	-	3	465	3.6	1117	94.7	1.11	-	-	1
470-479	6	472	3.6	1167	144.6	1.11	100.0	-	-	-	-	-	-	-	6	473	3.6	1167	144.6	1.11	100.0	-	-
480-489	1	489	-	1040	-	0.89	100.0	2	487	2.1	1850	212.1	1.61	100.0	3	487	2.1	1580	491.1	1.37	100.0	2.00	-
490-499	1	498	-	1400	-	1.13	100.0	-	-	-	-	-	-	-	1	498	-	1400	-	1.13	100.0	-	-
500-509	3	506	4.9	1533	112.7	1.19	100.0	-	-	-	-	-	-	-	3	506	4.9	1533	112.7	1.19	100.0	-	-
520-529	1	525	-	1600	-	1.11	100.0	-	-	-	-	-	-	-	1	525	-	1600	-	1.11	100.0	-	-
530-539	1	535	-	2000	-	1.31	100.0	-	-	-	-	-	-	-	1	535	-	2000	-	1.31	100.0	-	-
600-609	1	600	-	2200	-	1.02	100.0	-	-	-	-	-	-	-	1	600	-	2200	-	1.02	100.0	-	-
Total	103						99.0	3						100.0	109						-	0.03	3
Mean		413	44.7	806	316.3	1.11			472	24.6	1575	499.4	1.46			414	45.6	824	343.0	1.12			

Table 7. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by angling from Mosquito Creek, 1977.

Length Interval (mm)	Males							Females							Combined							F/M Ratio	No. Unknown
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.		
340-349	1	340	-	525	-	1.34	100.0	-	-	-	-	-	-	-	1	340	-	525	-	1.34	100.0	-	-
350-359	2	355	0.0	512	17.7	1.14	100.0	-	-	-	-	-	-	-	2	355	0.0	512	17.7	1.14	100.0	-	-
360-369	3	363	3.8	533	14.4	1.12	100.0	-	-	-	-	-	-	-	3	363	3.8	533	14.4	1.12	100.0	-	-
370-379	10	373	3.3	610	37.6	1.17	100.0	-	-	-	-	-	-	-	10	373	3.2	610	37.6	1.17	100.0	-	-
380-389	15	384	2.8	647	28.1	1.14	100.0	-	-	-	-	-	-	-	15	384	2.8	647	28.1	1.14	100.0	-	-
390-399	12	392	2.2	692	38.9	1.15	100.0	-	-	-	-	-	-	-	12	392	2.2	692	38.9	1.15	100.0	-	-
400-409	23	404	2.9	793	71.6	1.21	100.0	-	-	-	-	-	-	-	23	404	2.9	793	71.6	1.21	100.0	-	-
410-419	24	414	3.5	827	51.6	1.17	100.0	1	415	-	1125	-	1.57	100.0	25	414	3.4	839	78.1	1.18	100.0	0.04	-
420-429	18	424	2.9	865	68.7	1.14	100.0	-	-	-	-	-	-	-	18	424	2.9	865	68.7	1.14	100.0	-	-
430-439	17	434	2.5	984	85.2	1.20	100.0	-	-	-	-	-	-	-	17	434	2.5	984	85.2	1.20	100.0	-	-
440-449	9	444	3.1	1056	72.6	1.21	100.0	-	-	-	-	-	-	-	9	444	3.1	1056	72.6	1.21	100.0	-	-
450-459	12	454	3.2	1158	67.7	1.24	100.0	-	-	-	-	-	-	-	12	454	3.2	1158	67.7	1.24	100.0	-	-
460-469	8	464	3.4	1269	74.1	1.27	100.0	1	465	-	1300	-	1.29	100.0	9	464	3.2	1272	70.1	1.27	100.0	0.12	-
470-479	9	475	2.8	1314	93.6	1.23	100.0	-	-	-	-	-	-	-	9	475	2.8	1314	93.6	1.23	100.0	-	-
480-489	3	480	0.0	1450	129.9	1.31	100.0	-	-	-	-	-	-	-	3	480	0.0	1450	129.9	1.31	100.0	-	-
490-499	6	494	3.4	1471	117.7	1.21	100.0	-	-	-	-	-	-	-	6	494	3.4	1471	117.7	1.22	100.0	-	-
500-509	-	-	-	-	-	-	-	1	500	-	1525	-	1.22	100.0	3	504	4.6	1517	14.4	1.18	-	-	2
510-519	1	511	-	1600	-	1.20	100.0	-	-	-	-	-	-	-	1	511	-	1600	-	1.20	100.0	-	-
520-529	-	-	-	-	-	-	-	1	520	-	1800	-	1.28	100.0	1	520	-	1800	-	1.28	100.0	-	-
530-539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	530	-	1675	-	1.12	-	-	1
540-549	1	544	-	2150	-	1.34	100.0	-	-	-	-	-	-	-	1	544	-	2150	-	1.34	100.0	-	-
550-559	-	-	-	-	-	-	-	1	555	-	1575	-	0.92	100.0	1	555	-	1575	-	0.92	100.0	-	-
560-569	-	-	-	-	-	-	-	1	562	-	2150	-	1.19	100.0	1	565	-	2150	-	1.19	100.0	-	-
Total	174						100.0	6						100.0	183						-	0.04	3
Mean		422	35.3	919	273.2	1.19			503	56.6	1519	363.8	1.25			426	40.2	952	308.1	1.19			

Table 8 . Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by angling from Mosquito Creek, 1978.

Length Interval (mm)	Males							Females							Combined							F/M Ratio	No. Unknown
	N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.		
340-349	1	340	-	375	-	0.95	100.0	-	-	-	-	-	-	-	5	344	3.5	425	70.7	0.42	-	-	4
350-359	4	353	3.0	494	31.5	1.13	100.0	-	-	-	-	-	-	-	6	353	2.8	480	41.1	0.92	-	-	2
360-369	8	365	2.6	544	39.5	1.12	100.0	-	-	-	-	-	-	-	10	364	2.5	544	37.0	1.01	-	-	2
370-379	7	375	1.7	582	23.8	1.11	100.0	1	373	-	550	-	1.06	100.0	11	375	1.6	578	23.2	0.90	-	0.14	3
380-389	5	381	1.7	615	28.5	1.11	100.0	-	-	-	-	-	-	-	11	382	2.8	621	33.6	0.71	-	-	6
390-399	11	394	2.9	673	32.5	1.10	100.0	-	-	-	-	-	-	-	12	394	2.9	669	33.9	1.10	-	-	1
400-409	5	403	2.8	700	39.5	1.07	100.0	-	-	-	-	-	-	-	9	403	2.4	691	42.1	0.94	-	-	4
410-419	3	412	2.5	733	38.2	1.05	100.0	-	-	-	-	-	-	-	5	414	3.4	740	35.5	1.04	-	-	2
420-429	2	423	3.5	750	0.0	1.00	100.0	1	427	-	800	-	1.03	100.0	5	424	2.6	800	70.7	0.84	-	-	2
430-439	4	433	1.2	844	42.7	1.04	100.0	-	-	-	-	-	-	-	5	434	1.7	865	60.2	1.06	-	0.50	1
440-449	2	443	3.5	1025	106.1	1.19	100.0	-	-	-	-	-	-	-	3	442	2.9	983	104.1	1.14	-	-	1
450-459	1	450	-	1050	-	1.15	100.0	2	455	6.4	1025	35.4	1.09	100.0	5	453	4.0	1050	40.8	0.90	-	2.00	2
460-469	1	465	-	1150	-	1.14	100.0	-	-	-	-	-	-	-	2	463	3.5	1125	35.4	1.14	-	-	1
470-479	2	474	1.4	1288	123.7	1.21	100.0	-	-	-	-	-	-	-	3	474	1.2	1225	139.2	1.15	-	-	1
480-489	1	485	-	1325	-	1.16	100.0	2	485	2.8	1263	88.4	1.11	100.0	5	484	2.7	1290	51.8	1.14	-	2.00	2
500-509	1	502	-	1700	-	1.34	100.0	1	500	-	1725	-	1.38	100.0	2	501	1.4	1713	17.7	1.36	100.0	1.00	-
510-519	-	-	-	-	-	-	-	1	518	-	1400	-	1.01	100.0	1	518	-	1400	-	1.01	100.0	-	-
520-529	-	-	-	-	-	-	-	1	520	-	1575	-	1.12	100.0	1	520	-	1575	-	1.12	100.0	-	-
530-539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	530	-	1700	-	1.14	-	-	1
540-549	1	545	-	2150	-	1.33	100.0	-	-	-	-	-	-	-	1	545	-	2150	-	1.33	100.0	-	-
550-559	-	-	-	-	-	-	-	1	550	-	2200	-	1.32	100.0	1	550	-	2200	-	1.32	100.0	-	-
Total	59						100.0	10						100.0	104						-	0.17	35
Mean		401	40.5	743	304.8	1.11			477	51.5	1283	477.1	1.13			409	48.6	827	367.5	0.96			

Table 9. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by angling from Mosquito Creek, 1973-78.

Length Interval (mm)	Males							Females							Combined								
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
340-349	6	344	3.8	460	49.0	1.13	83.3	1	340	-	430	-	1.09	0.0	12	344	3.3	458	40.5	-	-	0.17	5
350-359	15	355	2.8	480	42.5	1.07	100.0	1	359	-	500	-	1.08	100.0	18	355	2.9	478	42.3	-	-	0.07	2
360-369	19	365	3.0	535	33.4	1.10	100.0	-	-	-	-	-	-	-	21	364	2.9	536	32.7	-	-	-	2
370-379	44	373	2.7	584	89.5	1.12	95.5	1	373	-	550	-	1.06	100.0	49	373	2.7	581	87.0	-	-	0.02	4
380-389	44	383	2.8	628	40.3	1.12	97.7	-	-	-	-	-	-	-	51	383	2.8	628	40.0	-	-	-	7
390-399	64	394	2.6	676	60.1	1.11	96.9	3	397	2.1	700	50.0	1.12	100.0	68	394	2.7	677	61.4	1.11	-	0.05	1
400-409	59	404	2.9	743	70.3	1.13	94.9	3	403	4.6	735	62.7	1.13	100.0	66	404	2.9	739	69.9	-	-	0.05	4
410-419	60	414	3.0	803	65.9	1.14	95.0	4	415	1.6	879	194.0	1.23	100.0	66	414	3.0	806	78.3	1.14	-	0.07	2
420-429	47	424	2.7	846	74.1	1.11	100.0	3	427	1.0	917	202.1	1.18	100.0	53	424	2.7	853	84.0	-	-	0.06	3
430-439	44	433	2.6	948	105.7	1.17	97.7	4	433	2.9	866	76.7	1.07	100.0	50	434	2.6	941	103.5	1.16	-	0.09	2
440-449	25	444	2.7	1014	105.7	1.16	100.0	2	445	1.4	1053	38.9	1.19	100.0	30	444	2.8	1015	100.0	1.16	-	0.08	3
450-459	18	454	3.0	1121	96.4	1.20	100.0	5	453	3.7	1054	55.5	1.13	100.0	26	453	3.0	1106	88.4	-	-	0.28	3
460-469	16	464	3.4	1197	122.8	1.20	100.0	4	464	3.0	1153	154.4	1.15	100.0	22	464	3.2	1178	125.0	1.18	-	0.25	2
470-479	21	474	3.1	1248	123.3	1.17	100.0	6	474	3.9	1233	62.5	1.16	100.0	30	474	3.2	1235	110.3	1.16	-	0.29	3
480-489	7	483	3.6	1342	167.1	1.19	100.0	7	485	2.2	1456	290.5	1.27	100.0	18	484	3.0	1377	212.8	1.22	-	1.00	4
490-499	9	494	3.3	1451	100.1	1.20	100.0	1	497	-	1440	-	1.17	100.0	12	495	3.1	1433	96.2	1.18	-	0.11	2
500-509	5	504	4.2	1530	147.3	1.20	100.0	3	501	2.3	1643	104.9	1.30	100.0	12	503	3.6	1521	145.4	1.19	-	0.60	4
510-519	2	515	5.7	1580	28.3	1.16	100.0	1	518	-	1400	-	1.01	100.0	4	515	4.7	1565	124.8	1.15	-	0.50	1
520-529	1	525	-	1600	-	1.11	100.0	2	520	0.0	1683	159.1	1.20	100.0	3	522	2.9	1658	123.3	1.17	100.0	2.00	-
530-539	1	535	-	2000	-	1.31	100.0	-	-	-	-	-	-	-	4	531	2.5	1769	154.6	1.18	-	-	3
540-549	2	545	0.7	2150	0.0	1.33	100.0	-	-	-	-	-	-	-	2	545	0.7	2150	0.0	1.33	100.0	-	-
550-559	1	554	-	1950	-	1.15	100.0	3	553	2.9	2058	430.4	1.22	100.0	4	554	2.4	2031	355.5	1.20	100.0	3.00	-
560-569	-	-	-	-	-	-	-	1	565	-	2150	-	1.19	100.0	1	565	-	2150	-	1.19	100.0	-	-
600-609	1	600	-	2200	-	1.02	100.0	-	-	-	-	-	-	-	1	600	-	2200	-	1.02	100.0	-	-
Total	512						97.5	55						100.0	623						-	0.11	57
Mean		414	38.0	834	281.2	1.14			458	48.9	1174	432.9	1.17			419	42.8	878	322.0	1.14			

Table 10. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by trap (fish fence) from Mosquito Creek, 1974.

Length Interval (mm)	Males							Females							Combined							F/M Ratio	No. Unknown
	N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.		
320-329	1	329	-	500	-	1.40	100.0	-	-	-	-	-	-	-	1	329	-	500	-	1.40	100.0	-	-
330-339	1	330	-	630	-	1.75	100.0	-	-	-	-	-	-	-	1	330	-	630	-	1.75	100.0	-	-
340-349	1	348	-	700	-	1.66	100.0	-	-	-	-	-	-	-	1	348	-	700	-	1.66	100.0	-	-
350-359	2	354	2.8	600	0.0	1.35	100.0	1	353	-	725	-	1.65	100.0	3	354	2.1	642	72.2	1.45	100.0	0.50	-
360-369	1	360	-	550	-	1.18	100.0	-	-	-	-	-	-	-	1	360	-	550	-	1.18	100.0	-	-
370-379	6	376	1.6	679	112.9	1.27	100.0	-	-	-	-	-	-	-	6	376	1.6	679	113.0	1.27	100.0	-	-
380-389	10	384	2.9	684	66.8	1.21	100.0	2	382	3.5	665	7.1	1.19	100.0	12	383	2.8	681	60.9	1.21	100.0	0.20	-
390-399	10	394	3.4	778	52.8	1.27	100.0	-	-	-	-	-	-	-	10	394	3.4	778	52.8	1.27	100.0	-	-
400-409	8	404	1.8	899	75.9	1.36	100.0	-	-	-	-	-	-	-	8	404	1.8	899	75.9	1.36	100.0	-	-
410-419	7	415	3.8	954	84.4	1.34	100.0	3	414	1.7	917	28.9	1.29	100.0	11	414	3.2	957	83.6	1.34	-	0.43	1
420-429	6	422	2.6	933	86.6	1.24	100.0	1	420	-	1050	-	1.42	100.0	8	422	2.3	975	109.7	1.30	-	0.17	1
430-439	10	434	3.0	1096	127.3	1.34	100.0	6	433	1.7	1100	114.0	1.35	100.0	16	434	2.6	1097	118.6	1.34	100.0	0.60	-
440-449	9	444	2.8	1132	93.5	1.29	100.0	9	445	1.9	1192	93.5	1.36	100.0	20	444	2.3	1172	97.8	1.34	-	1.00	2
450-459	5	456	1.9	1214	127.3	1.28	100.0	18	454	3.1	1296	116.4	1.38	100.0	24	454	2.8	1277	118.4	1.36	-	3.60	1
460-469	2	466	2.1	1450	212.1	1.43	100.0	13	463	2.9	1375	94.6	1.38	100.0	18	464	3.0	1382	101.4	1.39	-	6.50	3
470-479	2	472	3.5	1288	17.7	1.22	100.0	13	474	3.5	1426	109.2	1.34	100.0	18	474	3.3	1394	113.0	1.31	-	6.50	3
480-489	-	-	-	-	-	-	-	8	485	3.0	1594	85.3	1.39	100.0	10	484	3.2	1585	90.7	1.40	-	-	2
490-499	1	495	-	1500	-	1.24	100.0	5	494	3.4	1561	110.6	1.29	100.0	6	494	3.1	1551	102.0	1.28	100.0	5.00	-
500-509	-	-	-	-	-	-	-	4	505	2.8	1694	59.1	1.32	100.0	4	505	2.7	1694	59.1	1.32	100.0	-	-
510-519	-	-	-	-	-	-	-	3	512	3.2	1817	76.4	1.35	100.0	3	512	3.2	1817	76.4	1.35	100.0	-	-
530-539	-	-	-	-	-	-	-	1	533	-	1850	-	1.22	100.0	1	533	-	1850	-	1.22	100.0	-	-
550-559	-	-	-	-	-	-	-	1	553	-	2150	-	1.40	100.0	1	553	-	2150	-	1.27	100.0	-	-
Total	82						100.0	88						100.0	183	440					-	1.07	13
Mean		412	33.6	926	239.7	1.30			463	30.7	1360	266.2	1.36				40.2	1163	326.8	1.33			

Table 11. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by the upstream trap (fish fence) from Mosquito Creek, 1975.

Length Interval (mm)	Males							Females							Combined							F/M Ratio	No. Unknown
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.		
250-259	-	-	-	-	-	-	-	1	251	-	200	-	1.26	0.0	1	251	-	200	-	1.26	0.0	-	-
310-319	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	317	-	370	-	1.16	-	-	1
340-349	1	342	-	440	-	1.10	100.0	-	-	-	-	-	-	-	1	342	-	440	-	1.10	100.0	-	-
350-359	3	355	4.1	503	35.1	1.12	100.0	1	355	-	520	-	1.16	0.0	5	355	3.2	516	32.1	1.16	-	0.33	1
360-369	3	363	2.5	547	50.3	1.15	100.0	-	-	-	-	-	-	-	3	363	2.5	547	50.3	1.15	100.0	-	-
370-379	4	374	2.5	552	37.7	1.05	100.0	-	-	-	-	-	-	-	5	374	2.2	532	56.3	1.01	-	-	1
380-389	6	386	2.4	680	86.7	1.18	100.0	1	380	-	466	-	0.85	100.0	8	385	2.9	631	117.0	1.10	-	0.17	1
390-399	2	394	0.7	750	141.4	1.22	50.0	1	392	-	720	-	1.19	100.0	3	394	1.5	740	101.5	1.21	100.0	0.50	-
400-409	6	405	2.5	723	190.4	1.09	100.0	2	402	2.1	780	42.4	1.20	100.0	10	404	2.7	749	148.8	1.14	-	0.33	2
410-419	5	413	1.9	881	74.5	1.25	100.0	1	416	-	1000	-	1.39	100.0	9	413	2.2	878	96.7	1.24	-	0.20	3
420-429	5	424	3.8	964	75.0	1.26	100.0	1	422	-	1000	-	1.33	100.0	7	424	3.4	960	68.1	1.26	-	0.20	1
430-439	3	434	3.6	990	65.6	1.21	100.0	8	434	2.1	1051	77.8	1.29	100.0	13	434	2.2	1029	71.3	1.26	-	2.67	2
440-449	2	448	0.0	1090	84.8	1.21	100.0	11	445	3.0	1062	78.8	1.20	100.0	14	445	3.2	1058	80.0	1.20	-	5.50	1
450-459	3	455	2.5	1133	57.7	1.20	100.0	14	454	2.4	1199	118.2	1.28	100.0	22	455	2.5	1188	100.2	1.26	-	4.67	5
460-469	1	467	-	1200	-	1.18	100.0	11	464	3.1	1203	159.2	1.20	100.0	15	464	3.1	1195	142.2	1.19	-	11.00	3
470-479	3	472	2.3	1333	152.8	1.26	100.0	9	475	3.1	1370	156.8	1.28	100.0	15	474	3.1	1366	136.5	1.28	-	3.00	3
480-489	1	488	-	1350	-	1.16	100.0	5	483	2.5	1320	101.7	1.17	100.0	7	483	3.1	1357	119.4	1.20	-	5.00	1
490-499	1	495	-	1450	-	1.19	100.0	4	492	1.3	1285	144.6	1.08	100.0	5	492	1.9	1318	145.3	1.10	100.0	4.00	-
500-509	-	-	-	-	-	-	-	3	500	0.0	1483	75.1	1.19	100.0	5	502	3.6	1546	109.4	1.22	-	-	2
510-519	1	518	-	1650	-	1.19	100.0	4	515	3.3	1682	172.1	1.23	100.0	5	515	3.2	1676	149.8	1.22	100.0	4.00	-
520-529	-	-	-	-	-	-	-	2	523	0.0	1625	35.4	1.14	100.0	2	523	0.0	1625	35.4	1.14	100.0	-	-
540-549	-	-	-	-	-	-	-	1	542	-	2200	-	-	100.0	1	542	-	2200	-	1.38	100.0	-	-
Total	50						98.0	80						97.5	157						-	1.60	27
Mean		413	40.6	863	298.3	1.18			458	39.8	1203	295.3	1.23			440	45.2	1068	340.1	1.21			

Table 12. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by the downstream trap (fish fence) from Mosquito Creek, 1975.

Length Interval (mm)	Males							Females							Combined							F/M Ratio	No. Unknown
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%			
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.		
320-329	2	324	4.9	350	70.7	1.02	100.0	-	-	-	-	-	-	-	3	326	4.4	350	50.0	1.01	-	-	1
330-339	4	334	3.8	388	9.6	1.04	75.0	-	-	-	-	-	-	-	5	334	3.3	400	29.2	1.07	-	-	1
340-349	7	346	3.1	533	101.8	1.29	100.0	-	-	-	-	-	-	-	13	344	3.1	512	94.5	1.25	-	-	6
350-359	8	354	3.2	492	46.8	1.11	75.0	-	-	-	-	-	-	-	12	353	3.0	485	62.9	1.10	-	-	4
360-369	17	364	2.9	598	87.7	1.23	100.0	-	-	-	-	-	-	-	29	364	3.2	586	88.2	1.17	-	-	12
370-379	13	375	2.5	626	49.8	1.19	92.3	1	375	-	530	-	1.00	0.0	16	375	2.2	623	54.7	1.18	-	0.08	2
380-389	14	385	2.6	675	81.6	1.18	100.0	1	382	-	570	-	1.02	0.0	20	385	2.8	656	75.6	1.15	-	0.07	5
390-399	26	395	2.5	708	86.0	1.15	100.0	1	399	-	720	-	1.13	0.0	32	395	2.8	715	81.7	1.16	-	0.04	5
400-409	18	404	2.8	763	81.7	1.15	94.4	1	400	-	790	-	1.23	100.0	26	405	3.0	773	89.5	1.16	-	0.06	7
410-419	16	414	2.8	804	81.2	1.13	87.5	-	-	-	-	-	-	-	34	415	2.8	792	90.9	1.08	-	-	18
420-429	21	424	1.9	839	58.6	1.05	95.2	3	426	2.9	883	90.7	1.15	100.0	42	424	2.1	860	83.6	1.08	-	0.14	18
430-439	14	432	2.7	927	103.9	1.15	100.0	2	436	2.1	975	106.1	1.17	100.0	34	434	3.0	938	99.6	1.15	-	0.14	18
440-449	13	444	2.4	997	123.4	1.14	100.0	3	442	2.5	1140	101.5	1.32	100.0	33	444	2.8	1010	128.9	1.15	-	0.23	17
450-459	7	454	3.2	1093	69.4	1.17	100.0	12	454	2.2	1108	136.2	1.18	100.0	36	454	2.9	1101	98.4	1.18	-	1.71	17
460-469	5	464	3.9	1100	122.5	1.10	100.0	9	465	2.5	1190	142.1	1.18	100.0	41	464	2.9	1164	136.1	1.16	-	1.80	27
470-479	5	474	3.5	1260	114.0	1.18	100.0	7	474	3.0	1217	104.2	1.14	100.0	22	474	2.9	1255	129.9	1.17	-	1.40	10
480-489	1	483	-	1200	-	1.06	100.0	7	485	2.7	1285	134.0	1.13	100.0	18	484	2.5	1270	102.9	1.06	-	7.00	10
490-499	1	495	-	1350	-	1.11	100.0	7	495	2.9	1441	90.6	1.19	100.0	15	494	2.9	1436	120.8	1.19	-	7.00	7
500-509	2	502	-	1395	-	1.10	100.0	-	-	-	-	-	-	-	8	504	2.9	1449	136.3	1.13	-	-	6
510-519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	515	3.3	1512	193.1	1.10	-	-	4
520-529	-	-	-	-	-	-	-	1	522	-	1600	-	1.12	100.0	4	522	3.3	1640	49.0	1.15	-	-	3
530-539	-	-	-	-	-	-	-	2	533	-	1740	28.3	1.15	100.0	2	533	0.0	1740	0.0	1.15	-	-	-
550-559	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	550	-	1950	-	1.17	-	-	1
Total	194						95.9	57						91.2	450						-	0.29	199
Mean		404	36.5	778	217.6	1.15			464	31.4	1181	253.8	1.17			426	44.7	925	300.7	1.14			

Table 13. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by trap (fish fence) from Mosquito Creek, 1975.

Length Interval (mm)	Males							Females							Combined								
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
250-259	-	-	-	-	-	-	-	-	251	-	200	-	1.26	0.0	1	251	-	200	-	1.26	0.0	-	-
310-319	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	317	-	370	-	1.16	-	-	1
320-329	2	324	4.9	350	70.7	1.02	100.0	-	-	-	-	-	-	-	3	326	4.4	350	50.0	1.01	-	-	1
330-339	4	334	3.8	388	9.6	1.04	75.0	-	-	-	-	-	-	-	5	334	3.3	400	29.2	1.07	-	-	1
340-349	8	345	3.2	521	99.8	1.26	100.0	-	-	-	-	-	-	-	14	344	3.0	506	93.7	1.24	-	-	6
350-359	11	354	3.3	495	42.5	1.12	81.8	1	355	-	570	-	1.16	0.0	17	354	3.1	494	56.4	1.12	-	0.09	5
360-369	20	364	2.8	590	84.2	1.22	100.0	-	-	-	-	-	-	-	32	364	3.2	582	85.5	1.17	-	-	12
370-379	17	375	2.4	609	56.2	1.16	94.1	1	375	-	530	-	1.01	0.0	21	375	2.2	601	66.8	1.14	-	0.06	3
380-389	20	385	2.6	676	80.9	1.18	100.0	2	381	1.4	518	78.5	0.94	50.0	28	385	2.8	649	87.9	1.14	-	0.10	6
390-399	28	395	2.4	711	87.8	1.15	96.4	2	396	4.9	720	0.0	1.16	50.0	35	395	2.7	717	82.1	1.16	-	0.07	5
400-409	24	404	2.7	753	114.6	1.14	95.8	3	401	1.7	783	30.6	1.21	100.0	36	404	2.9	766	107.4	1.16	-	0.12	9
410-419	21	414	2.6	823	84.7	1.16	90.5	1	416	-	1000	-	1.39	100.0	43	414	2.7	811	97.8	1.11	-	0.05	21
420-429	26	424	2.3	864	79.1	1.09	96.2	4	425	2.9	912	94.3	1.19	100.0	49	424	2.3	875	88.4	1.01	-	0.15	10
430-439	17	432	2.8	938	99.6	1.16	100.0	10	434	2.3	1035	83.5	1.26	100.0	47	434	2.8	963	100.7	1.18	-	0.59	20
440-449	15	444	2.6	1009	121.0	1.15	100.0	14	444	3.0	1078	86.4	1.23	100.0	47	444	2.9	1024	117.7	1.16	-	0.93	18
450-459	10	454	2.9	1105	65.9	1.18	100.0	26	454	2.3	1157	132.5	1.24	100.0	58	454	2.7	1134	107.0	1.21	-	2.60	22
460-469	6	464	3.8	1117	116.9	1.11	100.0	20	464	2.8	1197	147.9	1.19	100.0	56	464	2.9	1172	137.2	1.17	-	3.33	30
470-479	8	473	3.0	1288	124.6	1.21	100.0	16	474	3.0	1303	153.6	1.22	100.0	37	474	2.9	1300	141.9	1.22	-	2.00	13
480-489	2	486	3.5	1275	106.1	1.13	100.0	12	484	2.7	1299	117.8	1.14	100.0	25	484	2.6	1296	112.7	1.10	-	6.00	11
490-499	2	495	0.0	1400	70.7	1.15	100.0	11	494	2.9	1384	132.0	1.15	100.0	20	494	2.8	1406	133.9	1.17	-	5.50	7
500-509	2	502	0.0	1395	63.6	1.10	100.0	3	500	0.0	1483	75.0	1.19	100.0	13	503	3.2	1486	131.4	1.17	-	1.50	8
510-519	1	518	-	1650	-	1.19	100.0	4	515	3.3	1682	172.1	1.23	100.0	9	515	3.0	1603	180.6	1.17	-	4.00	4
520-529	-	-	-	-	-	-	-	3	523	0.6	1617	28.9	1.13	100.0	6	522	2.6	1635	41.8	1.15	-	-	3
530-539	-	-	-	-	-	-	-	2	533	0.0	1740	0.0	1.15	100.0	2	533	0.0	1740	28.3	1.15	100.0	-	-
540-549	-	-	-	-	-	-	-	1	542	-	2200	-	1.38	100.0	1	542	-	2200	-	1.38	100.0	-	-
550-559	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	550	-	1950	-	1.17	-	-	1
Total	244						96.0	137						96.4	607						-	0.61	226
Mean		406	37.5	796	283.3	1.15			461	36.5	1194	277.7	1.20			430	45.2	962	314.7	1.17			

Table 14. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by length interval for walleye caught by trap (fish fence) from Mosquito Creek, 1974-75.

Length Interval (mm)	Males							Females							Combined								
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
250-259	-	-	-	-	-	-	-	1	251	-	200	-	1.26	0.0	1	251	-	200	-	1.26	0.0	-	-
310-319	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	317	-	370	-	1.16	-	-	1
320-329	3	326	4.4	400	100.0	1.15	100.0	-	-	-	-	-	-	-	4	327	3.9	388	85.4	1.11	-	-	1
330-339	5	333	3.7	436	108.8	1.18	80.0	-	-	-	-	-	-	-	6	333	3.4	438	97.4	1.19	-	-	1
340-349	9	346	3.1	541	110.7	1.31	100.0	-	-	-	-	-	-	-	15	344	3.1	519	103.2	1.27	-	-	6
350-359	13	354	3.1	512	55.2	1.15	84.6	2	354	1.4	622	144.9	1.41	50.0	20	354	2.9	516	78.4	1.17	-	0.15	5
360-369	21	364	2.9	588	82.6	1.22	100.0	-	-	-	-	-	-	-	33	364	3.2	581	84.3	1.17	-	-	12
370-379	23	375	2.3	627	78.7	1.19	95.7	1	375	-	530	-	1.01	0.0	27	375	2.2	619	83.5	1.17	-	0.04	3
380-389	30	385	2.7	679	75.4	1.19	100.0	4	382	2.4	592	95.0	1.06	75.0	40	384	2.8	658	81.3	1.16	-	0.13	6
390-399	38	395	2.7	729	84.8	1.18	97.4	2	396	4.9	720	0.0	1.16	50.0	45	395	2.8	731	80.2	1.19	-	0.05	5
400-409	32	404	2.5	789	123.1	1.19	96.9	3	401	1.7	783	30.6	1.21	66.7	44	404	2.8	790	113.9	1.19	-	0.09	9
410-419	28	414	2.9	856	101.4	1.20	92.9	4	414	1.7	938	47.9	1.32	100.0	54	414	2.8	841	111.9	1.16	-	0.14	22
420-429	32	423	2.4	877	83.9	1.12	96.9	5	424	3.3	940	102.2	1.24	100.0	57	424	2.4	890	97.3	1.13	-	0.16	20
430-439	27	433	2.9	996	133.0	1.22	100.0	16	434	2.1	1060	97.8	1.30	100.0	63	434	2.7	997	120.0	1.22	-	0.59	20
440-449	24	444	2.6	1055	125.1	1.20	100.0	23	444	2.6	1123	103.8	1.28	100.0	67	444	2.7	1068	130.6	1.22	-	0.96	20
450-459	15	454	2.7	1141	101.3	1.22	100.0	44	454	2.6	1214	142.5	1.29	100.0	82	454	2.7	1176	127.6	1.25	-	2.93	23
460-469	8	465	3.4	1200	200.0	1.19	100.0	33	464	2.9	1267	155.3	1.27	100.0	74	464	2.9	1223	157.3	1.22	-	4.12	33
470-479	10	473	2.9	1288	110.1	1.21	100.0	29	474	3.2	1358	146.9	1.27	100.0	55	474	3.1	1331	139.2	1.25	-	2.90	16
480-489	2	486	3.5	1275	106.1	1.11	100.0	20	485	2.8	1417	180.5	1.24	100.0	35	484	2.8	1381	170.3	1.18	-	10.00	13
490-499	3	495	0.0	1433	76.4	1.18	100.0	16	494	3.0	1440	143.4	1.19	100.0	26	494	2.8	1439	139.9	1.19	-	5.33	7
500-509	2	502	0.0	1395	63.6	1.10	100.0	7	503	3.2	1604	127.6	1.26	100.0	17	503	3.1	1535	147.8	1.20	-	3.50	8
510-519	1	518	-	1650	-	1.19	100.0	7	514	3.2	1740	147.9	1.28	100.0	12	514	3.2	1657	184.6	1.22	-	7.00	4
520-529	-	-	-	-	-	-	-	3	523	0.6	1617	28.9	1.32	100.0	6	522	2.6	1635	41.8	1.15	-	-	3
530-539	-	-	-	-	-	-	-	3	533	0.0	1777	66.6	1.17	100.0	3	533	0.0	1777	66.6	1.17	100.0	-	-
540-549	-	-	-	-	-	-	-	1	542	-	2200	-	1.38	100.0	1	542	-	2200	-	1.38	100.0	-	-
550-559	-	-	-	-	-	-	-	1	553	-	2150	-	1.27	100.0	2	552	2.1	2050	141.4	1.22	-	-	1
Total	326						97.2	225						96.9	790						-	0.69	239
Mean		408	36.6	828	244.9	1.19			461	34.3	1259	284.4	1.26			432	44.3	1009	330.6	1.20			

Table 15. Mean fork length, mean weight, condition factor (K), sex ratio and maturity by length interval for walleye caught by gillnet from the North Arm of Great Slave Lake, 1976-77.

Length Interval (mm)	Males							Females							Combined								
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
230-239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	238	0.7	145	7.1	1.08	-	-	2
250-259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	254	3.7	160	14.1	0.98	-	-	4
260-269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	263	2.0	200	14.1	1.09	-	-	5
270-279	5	275	3.7	230	24.5	1.10	-	1	278	-	220	-	1.02	-	17	275	3.2	215	31.6	1.03	-	0.20	11
280-289	1	285	-	250	-	1.08	-	1	284	-	240	-	1.05	-	9	285	2.7	238	33.8	1.03	-	1.00	7
290-299	2	294	3.5	280	28.3	1.10	-	1	295	-	280	-	1.09	-	7	293	1.8	274	19.0	1.09	-	0.50	4
300-309	2	302	2.1	285	49.5	1.04	-	-	-	-	-	-	-	-	10	303	2.9	301	32.5	1.08	-	-	8
310-319	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	314	2.3	310	40.0	1.00	-	-	5
320-329	1	322	-	350	-	1.05	-	-	-	-	-	-	-	-	4	322	1.9	352	41.3	1.05	-	-	3
330-339	3	336	2.9	423	37.9	1.14	-	-	-	-	-	-	-	-	6	336	3.3	422	34.9	1.12	-	-	3
340-349	8	346	3.0	468	23.8	1.12	-	-	-	-	-	-	-	-	13	346	2.8	475	31.5	1.15	-	-	5
350-359	11	354	2.6	507	39.8	1.14	-	-	-	-	-	-	-	-	14	354	2.8	509	36.9	1.14	-	-	3
360-369	13	364	3.0	542	40.2	1.12	-	1	363	-	500	-	1.04	-	18	364	2.7	539	37.8	1.12	-	0.08	4
370-379	23	374	2.7	588	45.9	1.12	-	2	372	0.7	540	56.6	1.05	-	28	374	2.3	589	49.8	1.12	-	0.09	3
380-389	15	285	2.9	641	42.2	1.13	-	4	384	1.9	658	11.8	1.16	-	20	384	2.7	640	41.8	1.13	-	0.27	1
390-399	20	395	2.1	690	46.2	1.12	-	11	393	2.2	687	50.4	1.13	-	31	394	2.3	689	46.9	1.13	-	0.55	-
400-409	13	405	2.6	740	74.8	1.12	-	6	404	1.7	755	46.7	1.14	-	19	404	2.3	745	66.8	1.12	-	0.46	-
410-419	19	415	3.0	808	50.0	1.13	-	15	412	3.6	818	75.2	1.15	-	34	415	3.3	813	61.6	1.14	-	0.79	-
420-429	13	425	3.0	885	44.4	1.16	-	7	424	3.1	888	82.1	1.16	-	20	424	3.0	886	58.1	1.16	-	0.54	-
430-439	11	433	1.9	931	109.8	1.14	-	5	433	3.6	983	38.7	1.21	-	16	433	2.4	947	95.1	1.16	-	0.45	-
440-449	7	442	1.7	994	38.2	1.15	-	7	445	3.1	974	45.8	1.11	-	14	444	2.3	984	41.7	1.13	-	1.00	-
450-459	6	453	2.0	1108	84.2	1.19	-	6	454	3.6	1073	70.0	1.15	-	12	453	2.4	1090	75.9	1.17	-	1.00	-
460-469	2	463	4.2	1110	14.1	1.12	-	5	464	2.4	1178	72.2	1.18	-	7	464	2.9	1158	67.9	1.16	-	2.50	-
470-479	-	-	-	-	-	-	-	4	474	2.6	1235	92.9	1.16	-	4	474	2.6	1235	92.9	1.16	-	-	-
480-489	-	-	-	-	-	-	-	3	486	4.0	1247	150.1	1.09	-	3	486	4.0	1247	150.1	1.09	-	-	-
490-499	1	490	-	1500	-	1.27	-	7	494	1.8	1386	92.4	1.15	-	8	494	2.3	1400	94.6	1.16	-	7.00	-
500-509	-	-	-	-	-	-	-	1	509	-	1560	-	1.18	-	1	509	-	1560	-	1.18	-	-	-
520-529	2	522	2.1	1670	42.4	1.18	-	1	521	-	1680	-	1.19	-	3	521	1.5	1673	30.6	1.18	-	0.50	-
530-539	1	535	-	1750	-	1.14	-	1	530	-	1700	-	1.14	-	2	532	3.5	1725	35.4	1.14	-	1.00	-
540-549	1	540	-	1880	-	1.19	-	-	-	-	-	-	-	-	1	540	-	1880	-	1.19	-	-	-
Total	179						-	89						-	336						-	0.50	68
Mean		392	45.0	714	265.2	1.13			428	46.1	932	295.8	1.14			384	61.3	692	328.3	1.12			

Table 16. Mean fork length, mean weight, condition factor (K), sex ratio and maturity by length interval for walleye caught by hoop and fyke nets from Mosquito Creek, 1978.

Length Interval (mm)	Males							Females							Combined							F/M Ratio	No. Unknown
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.		
280-289	1	286	-	250	-	1.07	0.0	-		-	-	-	-	-	1	286	-	250	-	1.07	0.0	1.00	-
300-309	1	305	-	300	-	1.06	0.0	-		-	-	-	-	-	1	305	-	300	-	1.06	0.0	1.00	-
310-319	-	-	-	-	-	-	-	1	318	-	300	-	0.93	0.0	1	318	-	300	-	0.93	0.0	-	-
320-329	1	322	-	350	-	1.05	0.0	1	325	-	350	-	1.02	0.0	2	324	2.1	350	0.0	1.03	0.0	2.00	-
330-339	1	333	-	400	-	1.08	100.0	1	337	-	450	-	1.18	0.0	3	335	2.0	408	31.2	1.09	-	3.00	1
340-349	5	347	2.9	469	12.5	-	80.0	-	-	-	-	-	-	-	9	346	3.1	456	29.1	-	-	1.80	4
350-359	10	353	2.8	488	25.0	-	70.0	-	-	-	-	-	-	-	13	354	2.8	486	34.9	-	-	1.30	3
360-369	8	365	3.7	625	35.4	-	88.0	-	-	-	-	-	-	-	9	365	3.6	617	28.9	-	-	-	1
370-379	15	373	3.0	556	12.5	-	87.0	-	-	-	-	-	-	-	16	372	2.9	555	11.2	-	-	-	1
380-389	21	383	3.3	650	30.6	-	95.0	-	-	-	-	-	-	-	22	383	3.4	654	29.2	-	-	-	1
390-399	26	394	3.3	656	59.1	-	100.0	-	-	-	-	-	-	-	31	394	3.3	656	59.1	-	-	-	5
400-409	33	404	3.0	742	14.4	-	100.0	1	400	-	750	-	1.17	100.0	40	404	3.0	763	30.6	-	-	0.03	6
410-419	42	414	2.9	830	20.9	-	100.0	-	-	-	-	-	-	-	50	414	2.8	813	46.7	-	-	-	8
420-429	41	424	2.9	910	67.5	-	100.0	2	422	0.0	850	-	-	50.0	50	423	2.9	888	80.2	-	-	0.05	7
430-439	54	434	3.0	913	52.0	-	100.0	3	434	2.7	-	-	-	100.0	64	434	3.0	913	52.0	-	-	0.60	7
440-449	42	443	2.5	1069	94.4	-	100.0	2	444	5.7	-	-	-	100.0	52	443	2.7	1050	91.9	-	-	0.05	8
450-459	45	454	2.9	1106	51.5	-	100.0	5	454	3.0	-	-	-	100.0	57	454	2.8	1106	51.5	-	-	0.11	7
460-469	48	464	2.8	1138	88.4	-	100.0	6	465	3.3	1400	-	-	100.0	62	464	2.9	1270	131.7	-	-	0.13	8
470-479	35	474	3.1	1306	94.4	-	100.0	10	475	2.8	1325	-	-	100.0	51	474	3.1	1300	77.5	-	-	0.29	6
480-489	36	483	2.3	1342	123.3	-	100.0	10	484	3.4	1425	-	-	100.0	53	484	2.6	1357	82.6	-	-	0.28	7
490-499	25	494	2.9	1375	353.6	-	100.0	8	494	3.3	-	-	-	100.0	44	494	3.0	1488	242.8	-	-	0.32	11
500-509	14	502	1.8	1663	88.4	-	100.0	14	503	2.9	1600	-	-	100.0	35	503	2.8	1613	84.8	-	-	1.00	7
510-519	7	513	2.7	-	-	-	100.0	12	512	2.9	1638	17.7	-	100.0	25	513	2.9	1575	109.0	-	-	1.71	6
520-529	5	524	3.4	1825	70.7	-	100.0	7	523	2.3	1900	-	-	100.0	16	523	2.6	1863	157.1	-	-	1.40	4
530-539	1	534	-	2050	-	1.35	100.0	4	535	3.3	1925	-	-	100.0	7	534	3.1	1983	62.9	-	-	4.00	2
540-549	4	545	2.5	1858	276.5	-	100.0	2	543	3.5	-	-	-	100.0	8	544	2.3	1855	198.8	-	-	0.50	2
550-559	1	555	-	2225	-	1.30	100.0	5	554	1.3	2075	282.8	-	100.0	6	554	1.2	2125	217.9	-	100.0	5.00	-
560-569	-	-	-	-	-	-	-	1	562	-	1975	-	1.11	100.0	1	562	-	1975	-	1.11	100.0	-	-
570-579	1	570	-	2375	-	1.28	100.0	1	572	-	2500	-	1.34	100.0	2	571	1.4	2437	88.4	1.31	100.0	1.00	-
580-589	1	585	-	-	-	-	100.0	-	-	-	-	-	-	-	1	585	-	-	-	-	100.0	-	-
Total	524						98.0	96						96.0	732						-	0.18	112
Mean		439	42.8	976	486.3	-			490	44.3	1422	668.4	-			448	47.3	1078	545.2	-			

Table 17. Length-weight relationship statistics for walleye caught by angling from Mosquito Creek, 1973-78.

Year	Sex	N	Y-Intercept (a)	Slope (b)	s_b	95% C.I. of b
1973	Male	104	5.2029	3.089	0.100	2.891 - 3.287
	Female	8	5.9408	3.367	0.634	1.816 - 4.918
	Unknown	-	-	-	-	- - -
	Combined	112	5.2118	3.092	0.097	2.900 - 3.284
1974	Male	38	6.0335	3.426	0.288	2.841 - 4.011
	Female	15	5.8377	3.343	0.229	2.848 - 3.838
	Unknown	15	4.8904	2.979	0.202	2.543 - 3.415
	Combined	68	5.1534	3.085	0.134	2.817 - 3.353
1975	Male	34	5.4913	3.205	0.122	2.957 - 3.453
	Female	13	5.2863	3.135	0.319	2.440 - 3.830
	Unknown	1	-	-	-	- - -
	Combined	48	5.7465	3.304	0.097	3.109 - 3.499
1976	Male	102	5.1571	3.076	0.095	2.888 - 3.499
	Female	3	13.6977	6.312	1.909	1.902 - 14.526
	Unknown	3	4.5789	2.850	0.279	1.649 - 4.006
	Combined	108	5.4125	3.175	0.099	2.979 - 3.404
1977	Male	174	5.6519	3.277	0.065	3.150 - 3.404
	Female	6	1.6244	1.782	0.429	0.691 - 2.973
	Unknown	3	2.6726	2.164	0.171	1.408 - 2.920
	Combined	183	5.3761	3.172	0.062	3.050 - 3.294
1978	Male	59	5.5771	3.239	0.098	3.043 - 3.435
	Female	10	6.1261	3.440	0.286	2.793 - 4.087
	Unknown	21	5.4246	3.176	0.122	2.921 - 3.431
	Combined	90	5.5032	3.209	0.067	3.070 - 3.341

Table 18. Length-weight relationship statistics for walleye caught by the fish fence from Mosquito Creek, 1974-75.

Year	Trap	Sex	N	Y-Intercept (a)	Slope (b)	s_b	95% C.I. of b
1975	Upstream	Male	50	-5.8008	3.332	0.211	2.908 - 3.756
		Female	80	-4.8606	2.980	0.123	2.735 - 3.225
		Unknown	27	-6.2850	3.517	0.193	3.119 - 3.915
		Combined	157	-5.5332	3.232	0.088	3.059 - 3.405
1974	Upstream	Male	82	-4.6106	2.894	0.140	2.616 - 3.172
		Female	88	-4.5701	2.888	0.126	2.638 - 3.138
		Unknown	13	-1.7242	1.821	0.406	0.927 - 2.715
		Combined	183	-5.0379	3.061	0.074	2.916 - 3.206
1975	Downstream	Male	193	-4.6299	2.881	0.087	2.710 - 3.052
		Female	57	-5.1761	3.091	0.194	2.713 - 3.449
		Unknown	195	-5.0577	3.044	0.078	2.891 - 3.197
		Combined	445	-4.9310	2.997	0.049	2.901 - 3.093
1975	Upstream & Downstream	Male	243	-4.9140	2.991	0.082	2.830 - 3.152
		Female	137	-4.8885	2.982	0.104	2.778 - 3.186
		Unknown	222	-5.2073	3.102	0.073	2.959 - 3.245
		Combined	602	-5.1499	3.082	0.043	2.998 - 3.166

Table 19. Length-weight relationship ststistics for walleye caught by gillnet from the North Arm of Great Slave Lake, 1976-77.

Year	Sex	N	Y-Intercept (a)	Slope (b)	s_b	95% C.I. of b
1976	Male	164	-5.3081	3.140	0.049	3.044 - 3.236
	Female	81	-5.3181	3.143	0.072	3.000 - 3.286
	Unknown	67	-5.7513	3.313	0.128	3.057 - 3.569
	Combined	312	-5.4836	3.207	0.030	3.148 - 3.266
1977	Male	15	-5.7204	3.291	0.135	2.997 - 3.585
	Female	8	-4.9384	2.994	0.168	2.583 - 3.405
	Combined[a]	24	-5.3775	3.161	0.081	3.080 - 3.242

[a] Includes fish of unknown sex.

Table 20. Length-weight relationship statistics for walleye caught by different methods from Mosquito Creek and vicinity, 1973-78.

Gear	Year(s)	Sex	N	Y-Intercept (a)	Slope (b)	s_b	95% of C.I. of b
Gillnet	1976-77	Male	179	-5.2899	3.132	0.045	3.044 - 3.220
		Female	89	-5.2732	3.126	0.068	2.991 - 3.261
		Unknown	68	-5.7496	3.313	0.127	3.060 - 3.566
		Combined	336	-5.4553	3.195	0.028	3.140 - 3.250
Trap (Fence)	1974-75	Male	325	-4.9560	3.012	0.077	2.861 - 3.163
		Female	225	-4.8741	2.990	0.095	2.804 - 3.176
		Unknown	235	-5.2773	3.130	0.076	2.981 - 3.279
		Combined	785	-5.2593	3.128	0.042	3.046 - 3.210
Trap (Hoop & Fyke)	1978	Male	73	-5.5745	3.244	0.059	3.126 - 3.362
		Female	17	-5.8107	3.332	0.102	3.115 - 3.549
		Unknown	36	-5.8587	3.351	0.095	3.158 - 3.544
		Combined	126	-5.6922	3.289	0.044	3.203 - 3.375
Angling	1973-78	Male	511	-5.5916	3.247	0.046	3.201 - 3.337
		Female	55	-5.6068	3.253	0.156	2.940 - 3.566
		Unknown	43	-5.3761	3.160	0.075	3.008 - 3.312
		Combined	609	-5.5462	3.229	0.039	3.153 - 3.305

Table 21. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by angling from Mosquito Creek, 1973.

Age	Males							Females							Combined							
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M
(Yr)	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio
7	1	402	-	750	-	1.16	100.0	-	-	-	-	-	-	-	1	402	-	750	-	1.16	100.0	-
8	11	380	22.0	580	126.4	1.04	100.0	1	395	-	650	-	1.06	100.0	12	381	21.5	585	122.2	1.05	100.0	0.09
9	18	391	19.9	654	112.6	1.08	100.0	2	432	5.0	800	0.0	1.00	100.0	20	395	22.6	668	115.7	1.08	100.0	0.11
10	23	400	22.9	682	145.8	1.05	100.0	1	413	-	700	-	0.99	100.0	24	401	22.6	683	142.7	1.05	100.0	0.04
11	26	424	25.4	811	143.0	1.05	100.0	1	465	-	950	-	0.94	100.0	27	426	26.1	816	142.7	1.05	100.0	0.04
12	12	423	21.9	854	160.9	1.12	100.0	1	430	-	925	-	1.16	100.0	13	424	21.0	860	155.3	1.12	100.0	0.08
13	5	471	52.3	1180	485.9	1.08	100.0	1	473	-	1250	-	1.18	100.0	6	471	46.8	1192	435.5	1.10	100.0	0.20
14	1	501	-	1350	-	1.07	100.0	-	-	-	-	-	-	-	1	501	-	1350	-	1.07	100.0	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	1	468	-	1200	-	1.17	100.0	-	-	-	-	-	-	-	1	468	-	1200	-	1.17	100.0	-
Total	98						100.0	7						100.0	105						100.0	0.07
Mean	10.3[a]	411	34.0	759	224.4	1.07		10.3[a]	434	27.4	868	200.4	1.05		10.3[a]	412	34.0	766	223.6	1.07		

[a] Indicates mean age.

Table 22. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by angling from Mosquito Creek, 1974.

Age	Males							Females							Combined								
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
(Yr)	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
8	5	400	12.4	897	122.7	1.39	100.0	1	426	-	1150	-	1.49	100.0	6	405	15.3	939	150.7	1.41	100.0	0.20	-
9	2	385	21.2	610	84.9	1.07	100.0	3	405	9.0	708	38.2	1.07	100.0	6	394	16.2	658	71.7	1.07	-	1.50	1
10	14	415	33.2	902	288.8	1.23	100.0	6	423	50.2	862	275.2	1.10	100.0	22	423	39.9	917	278.7	1.18	-	0.43	2
11	11	415	13.7	827	116.0	1.15	100.0	2	415	78.5	900	565.7	1.17	100.0	20	431	35.7	939	236.6	1.15	-	0.18	7
12	5	438	36.6	1020	284.7	1.19	100.0	2	441	58.0	1050	353.6	1.21	100.0	11	463	45.8	1209	347.2	1.19	-	0.40	4
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	500	-	1300	-	1.04	-	-	1
14	-	-	-	-	-	-	-	1	555	-	2400	-	1.40	100.0	1	555	-	2400	-	1.40	100.0	-	-
Total	37						100.0	15						100.0	67						-	0.41	15
Mean	10.3[a]	414	28.0	879	229.3	1.21		10.3[a]	430	54.0	983	478.1	1.16		10.5[a]	431	43.7	978	336.9	1.18			

[a] Indicates mean age.

Table 23 . Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by angling from Mosquito Creek, 1975.

Age (Yr)	Males N	Males Length(mm) Mean	Males Length(mm) SD	Males Weight(g) Mean	Males Weight(g) SD	Males K	Males % Mat.	Females N	Females Length(mm) Mean	Females Length(mm) SD	Females Weight(g) Mean	Females Weight(g) SD	Females K	Females % Mat.	Combined N	Combined Length(mm) Mean	Combined Length(mm) SD	Combined Weight(g) Mean	Combined Weight(g) SD	Combined K	Combined % Mat.	F/M Ratio	No. Unknown
7	2	387	8.5	625	49.5	1.08	100.0	-	-	-	-	-	-	-	2	387	8.5	625	49.5	1.08	100.0	-	-
8	2	382	16.3	605	77.8	1.09	100.0	-	-	-	-	-	-	-	2	382	16.3	605	77.8	1.09	100.0	-	-
9	10	387	24.4	627	137.7	1.07	100.0	-	-	-	-	-	-	-	10	387	24.4	627	137.7	1.07	100.0	-	-
10	5	408	24.1	770	163.3	1.12	100.0	2	413	6.4	835	148.5	1.19	100.0	7	409	20.7	786	152.0	1.14	100.0	0.33	-
11	2	411	15.6	855	63.6	1.23	100.0	1	446	-	1080	-	1.22	100.0	3	423	23.0	930	137.5	1.23	100.0	0.50	-
12	4	442	29.5	962	166.1	1.11	100.0	2	479	0.7	1215	106.1	1.11	100.0	6	454	29.6	1046	189.6	1.11	100.0	0.50	-
13	3	452	36.1	1080	336.5	1.15	100.0	4	463	7.6	1180	69.3	1.19	100.0	8	457	21.0	1130	193.0	1.18	-	1.33	1
14	2	435	29.0	960	198.0	1.16	100.0	-	-	-	-	-	-	-	2	435	29.0	960	198.0	1.16	100.0	-	-
15	1	519	-	1560	-	1.12	100.0	-	-	-	-	-	-	-	1	519	-	1560	-	1.12	100.0	-	-
16	-	-	-	-	-	-	-	1	472	-	1180	-	1.12	100.0	1	472	-	1180	-	1.12	100.0	-	-
Total	33						100.0	10						100.0	44						-	0.30	1
Mean	10.3[a]	411	38.1	795.5	258.0	1.11		12.3[a]	455	24.8	1108	165.5	1.17		10.8[a]	422	39.6	873	271.5	1.13			

[a] Indicates mean age.

Table 24. Mean fork length, mean weight, condition factor (K), maturity, and sex ratio by age group for walleye caught by angling from Mosquito Creek, 1976.

Age (Yr)	Males N	Males Length(mm) Mean	Males Length(mm) SD	Males Weight(g) Mean	Males Weight(g) SD	Males K	Males % Mat.	Females N	Females Length(mm) Mean	Females Length(mm) SD	Females Weight(g) Mean	Females Weight(g) SD	Females K	Females % Mat.	Combined N	Combined Length(mm) Mean	Combined Length(mm) SD	Combined Weight(g) Mean	Combined Weight(g) SD	Combined K	Combined % Mat.	F/M Ratio	No. Unknown
7	2	386	8.5	650	35.4	1.13	100.0	-	-	-	-	-	-	-	2	386	8.5	650	35.4	1.30	100.0	-	-
8	12	378	18.8	588	96.2	1.08	100.0	-	-	-	-	-	-	-	14	375	19.7	574	95.9	1.08	-	-	2
9	31	389	22.3	644	126.0	1.08	100.0	-	-	-	-	-	-	-	31	389	22.3	644	126.0	1.08	100.0	-	-
10	33	407	29.2	759	203.8	1.12	100.0	2	465	29.0	1513	689.4	1.46	100.0	35	411	31.9	802	290.8	1.14	100.0	0.06	-
11	8	438	26.2	987	198.8	1.16	100.0	-	-	-	-	-	-	-	8	438	26.2	987	198.8	1.16	100.0	-	-
12	7	469	26.5	1091	183.4	1.06	100.0	-	-	-	-	-	-	-	7	469	26.5	1091	183.4	1.06	100.0	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	462	-	1050	-	1.07	-	-	1
14	1	500	-	1525	-	1.22	100.0	-	-	-	-	-	-	-	1	500	-	1525	-	1.22	100.0	-	-
15	4	529	54.3	1719	453.4	1.15	100.0	-	-	-	-	-	-	-	4	529	-	1719	-	1.15	100.0	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	1	508	-	1650	-	1.26	100.0	-	-	-	-	-	-	-	1	508	-	1650	-	1.26	100.0	-	-
Total	99						100.0	2						100.0	104						-	0.02	3
Mean	9.9[a]	412	44.8	799	317.5	1.11		10.0[a]	465	29.0	1513	689.4	1.46		9.9[a]	412	45.4	810	335.6	1.11			

[a] Indicates mean age.

Table 25. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by angling from Mosquito Creek, 1977.

Age (Yr)	Males N	Males Length(mm) Mean	Males Length(mm) SD	Males Weight(g) Mean	Males Weight(g) SD	Males K	Males % Mat.	Females N	Females Length(mm) Mean	Females Length(mm) SD	Females Weight(g) Mean	Females Weight(g) SD	Females K	Females % Mat.	Combined N	Combined Length(mm) Mean	Combined Length(mm) SD	Combined Weight(g) Mean	Combined Weight(g) SD	Combined K	Combined % Mat.	F/M Ratio	No. Unknown
6	2	377	3.5	612	17.7	1.17	100.0	-	-	-	-	-	-	-	2	377	3.5	612	17.7	1.17	100.0	-	-
7	9	390	18.7	694	127.3	1.16	100.0	-	-	-	-	-	-	-	9	390	18.7	694	127.3	1.16	100.0	-	-
8	43	396	25.5	723	148.7	1.15	100.0	-	-	-	-	-	-	-	43	396	25.5	723	148.7	1.15	100.0	-	-
9	47	417	21.3	856	145.3	1.17	100.0	-	-	-	-	-	-	-	48	419	24.4	869	171.2	1.17	100.0	-	1
10	26	419	24.5	872	159.9	1.18	100.0	1	415	-	1125	-	1.57	100.0	28	422	29.1	904	201.8	1.19	100.0	0.04	1
11	12	461	21.9	1210	184.5	1.23	100.0	3	507	45.4	1467	146.5	1.14	100.0	15	470	32.1	1262	202.6	1.21	100.0	0.25	-
12	10	454	13.7	1205	89.6	1.29	100.0	1	520	-	1800	-	1.28	100.0	12	466	30.5	1294	224.1	1.28	100.0	0.10	1
13	11	464	20.7	1266	178.3	1.26	100.0	-	-	-	-	-	-	-	11	464	20.7	1266	178.3	1.26	100.0	-	-
14	5	480	6.2	1385	139.9	1.25	100.0	-	-	-	-	-	-	-	5	480	6.2	1385	139.9	1.25	100.0	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	2	522	31.8	1888	371.2	1.32	100.0	1	565	-	2150	-	1.19	100.0	3	536	33.7	1975	303.1	1.28	100.0	0.50	-
Total	167						100.0	6						100.0	176						100.0	0.04	3
Mean	9.6[a]	422	35.4	914	272.3	1.19		11.8[a]	503	56.6	1579	363.8			9.7[a]	426	40.5	948	309.1	1.19			

[a] Indicates mean age.

Table 26. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group of walleye caught by angling from Mosquito Creek, 1978.

Age (Yr)	Males N	Males Length(mm) Mean	Males Length(mm) SD	Males Weight(g) Mean	Males Weight(g) SD	Males K	Males % Mat.	Females N	Females Length(mm) Mean	Females Length(mm) SD	Females Weight(g) Mean	Females Weight(g) SD	Females K	Females % Mat.	Combined N	Combined Length(mm) Mean	Combined Length(mm) SD	Combined Weight(g) Mean	Combined Weight(g) SD	Combined K	Combined % Mat.	F/M Ratio	No. Unknown
7	2	372	5.0	550	0.0	1.07	100.0	-	-	-	-	-	-	-	2	372	5.0	550	0.0	1.07	100.0	-	-
8	12	373	18.6	565	84.9	1.09	100.0	1	373	-	550	-	1.06	100.0	26	373	19.8	576	88.0	0.78	-	0.08	13
9	9	380	12.0	611	39.8	1.11	100.0	-	-	-	-	-	-	-	13	378	15.5	596	54.2	1.02	-	-	4
10	7	391	30.4	671	157.1	1.11	100.0	-	-	-	-	-	-	-	10	385	28.7	671	157.1	0.78	-	-	3
11	6	413	20.7	754	91.4	1.07	100.0	2	457	42.4	1063	371.2	1.09	100.0	17	431	33.5	904	235.5	0.89	-	0.33	9
12	7	405	17.4	725	64.6	1.09	100.0	2	471	17.0	1125	106.1	1.08	100.0	10	422	32.0	823	180.1	1.09	-	0.29	1
13	3	429	23.2	850	108.3	1.07	100.0	-	-	-	-	-	-	-	4	426	19.5	831	151.9	1.07	-	-	1
14	1	440	-	1100	-	1.29	100.0	3	496	39.3	1325	294.8	1.08	100.0	5	492	42.9	1355	300.2	1.13	-	3.00	1
15	4	481	16.1	1344	248.6	1.20	100.0	-	-	-	-	-	-	-	5	482	14.0	1335	216.2	1.19	-	-	1
16	2	510	49.5	1763	548.0	1.31	100.0	1	550	-	2200	-	1.32	100.0	3	523	41.9	1908	462.6	1.31	100.0	0.50	-
Total	53						100.0	9						100.0	95						-	0.17	33
Mean	10.5[a]	403	41.4	759	315.6	1.11		12.4[a]	474	54.0	1233	478.4	1.10		10.4[a]	409	48.9	831	367.6	0.94			

[a] Indicates mean age.

Table 27. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by angling from Mosquito Creek, 1973-78.

Age (Yr)	Males							Females							Combined								
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
6	2	374	3.5	613	17.7	1.18	100.0	-	-	-	-	-	-	-	2	374	3.5	613	17.7	1.18	100.0	-	-
7	16	388	15.9	666	109.1	1.13	100.0	-	-	-	-	-	-	-	16	388	15.9	666	109.1	1.13	100.0	-	-
8	85	388	24.2	670	155.3	1.13	100.0	3	398	26.6	783	321.5	1.20	100.0	103	386	24.5	666	159.4	-	-	0.04	15
9	118	400	25.3	725	166.0	1.12	100.0	5	415	16.2	745	57.0	1.04	100.0	129	400	26.9	727	176.5	-	-	0.04	6
10	108	408	27.9	783	205.2	1.13	100.0	12	427	39.5	974	389.4	1.21	100.0	126	411	31.9	814	245.5	-	-	0.11	6
11	66	430	27.5	906	214.9	1.12	100.0	9	464	53.5	1151	351.2	1.12	100.0	91	437	33.7	955	245.2	-	-	0.14	16
12	45	438	30.4	977	225.5	1.15	100.0	8	466	36.8	1188	302.1	1.15	100.0	59	448	36.8	1053	285.0	1.15	-	0.18	6
13	22	459	33.0	1164	307.5	1.18	100.0	5	465	8.1	1194	67.7	1.19	100.0	31	460	29.8	1155	270.6	1.17	-	0.23	4
14	10	471	27.4	1282	229.7	1.22	100.0	4	511	43.9	1594	588.9	1.16	100.0	15	485	37.0	1393	367.8	1.20	-	0.40	1
15	9	507	42.3	1534	368.1	1.17	100.0	-	-	-	-	-	-	-	10	504	40.5	1511	354.9	1.16	-	-	1
16	5	506	36.8	1700	437.7	1.29	100.0	3	529	49.9	1843	575.0	1.21	100.0	8	515	40.3	1754	458	1.26	100.0	0.60	-
17	1	508	-	1650	-	1.26	100.0	-	-	-	-	-	-	-	1	508	-	1650	-	1.26	100.0	-	-
Total	488						100.0	49						100.0	592						-	0.10	55
Mean	10.0[a]	414	37.9	832	281.3	1.14		11.3[a]	454	50.2	1133	434.6	1.16		10.1[a]	419	42.7	871	318.7	-			

[a] Indicates mean age.

Table 28. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by trap from Mosquito Creek, 1974.

Age (Yr)	Males							Females							Combined								
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
7	1	405	-	850	-	1.28	100.0	-	-	-	-	-	-	-	1	405	-	850	-	1.28	100.0	-	-
8	8	381	29.8	705	146.2	1.27	100.0	-	-	-	-	-	-	-	8	381	29.8	705	146.2	1.27	100.0	-	-
9	13	388	11.4	745	110.9	1.27	100.0	2	400	21.2	785	162.6	1.22	100.0	15	389	12.7	750	112.4	1.27	100.0	0.15	-
10	12	395	31.8	812	198.4	1.30	100.0	11	452	35.1	1280	220.5	1.38	100.0	26	426	43.4	1064	307.8	1.34	-	0.92	3
11	18	422	37.4	997	213.1	1.32	100.0	18	460	30.6	1366	267.2	1.38	100.0	39	443	38.2	1205	304.2	1.36	-	1.00	3
12	19	430	23.8	1053	247.0	1.30	100.0	37	461	24.7	1320	239.8	1.34	100.0	61	450	27.8	1231	261.2	1.33	-	1.95	5
13	9	425	16.2	1037	128.4	1.34	100.0	17	482	30.1	1535	242.4	1.37	100.0	28	462	36.5	1360	308.3	1.36	-	1.89	2
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1	446	-	1250	-	1.41	100.0	3	481	14.0	1510	144.2	1.36	100.0	4	472	20.8	1445	175.4	1.37	100.0	3.00	-
Total	81						100.0	88						100.0	182						-	1.09	13
Mean	10.7[a]	411	32.5	919	232.4	1.30		11.7[a]	463	30.7	1360	266.2	1.36		11.3[a]	439	40.1	1161	326.7	1.33			

[a] Indicates mean age.

Table 29. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by the upstream trap (fish fence) from Mosquito Creek, 1975.

Age (Yr)	Males N	Males Length(mm) Mean	Males Length(mm) SD	Males Weight(g) Mean	Males Weight(g) SD	Males K	Males % Mat.	Females N	Females Length(mm) Mean	Females Length(mm) SD	Females Weight(g) Mean	Females Weight(g) SD	Females K	Females % Mat.	Combined N	Combined Length(mm) Mean	Combined Length(mm) SD	Combined Weight(g) Mean	Combined Weight(g) SD	Combined K	Combined % Mat.	F/M Ratio	No. Unknown
8	4	372	22.8	472	83.8	0.91	100.0	-	-	-	-	-	-	-	5	376	19.7	468	73.3	0.90	-	-	1
9	10	383	21.6	650	159.4	1.13	100.0	2	374	26.2	620	141.4	1.18	50.0	14	380	21.3	628	145.7	1.13	-	0.20	2
10	10	399	27.1	764	163.2	1.18	100.0	1	458	-	1350	-	1.40	100.0	12	406	29.8	819	224.3	1.20	-	0.10	1
11	4	418	41.2	980	252.8	1.32	100.0	10	438	21.7	1089	221.6	1.28	100.0	17	432	26.9	1042	225.8	1.27	-	2.50	3
12	9	443	28.9	1093	180.3	1.25	100.0	15	456	22.9	1164	208.8	1.22	100.0	31	449	25.4	1119	191.1	1.23	-	1.67	7
13	5	450	39.2	1112	310.7	1.19	100.0	26	459	16.9	1170	139.7	1.21	100.0	33	458	20.7	1170	167.6	1.22	-	5.20	2
14	2	472	21.9	1225	176.8	1.16	100.0	12	477	28.4	1370	254.0	1.25	100.0	15	478	26.6	1373	252.4	1.24	-	6.00	1
15	2	469	2.8	1350	212.1	1.31	100.0	4	506	24.2	1550	462.3	1.17	100.0	7	496	25.1	1497	353.0	1.21	-	2.00	1
16	-	-	-	-	-	-	-	2	494	27.6	1555	134.4	1.31	100.0	2	494	27.6	1555	134.4	1.31	100.0	-	-
17	-	-	-	-	-	-	-	2	521	2.8	1645	7.1	1.16	100.0	2	521	2.8	1645	7.1	1.16	100.0	-	-
Total	46						97.8	74						98.7	138						-	1.61	18
Mean	9.0[a]	416	40.9	880	303.9	1.18		12.8[a]	461	31.6	1224	267.4	1.23		12.0[a]	443	41.6	1083	328.7	1.21			

[a] Indicates mean age.

Table 30. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by the downstream trap (fish fence) from Mosquito Creek, 1975.

Age (Yr)	Males N	Males Length(mm) Mean	Males Length(mm) SD	Males Weight(g) Mean	Males Weight(g) SD	Males K	Males % Mat.	Females N	Females Length(mm) Mean	Females Length(mm) SD	Females Weight(g) Mean	Females Weight(g) SD	Females K	Females % Mat.	Combined N	Combined Length(mm) Mean	Combined Length(mm) SD	Combined Weight(g) Mean	Combined Weight(g) SD	Combined K	Combined % Mat.	F/M Ratio	No. Unknown
7	1	373	-	640	-	1.23	100.0	-	-	-	-	-	-	-	4	351	19.4	478	124.5	1.08	-	-	3
8	7	348	17.0	481	121.4	1.12	71.4	-	-	-	-	-	-	-	10	348	14.8	467	102.7	1.10	-	-	3
9	41	370	23.7	573	112.6	1.12	95.1	2	378	4.9	550	28.3	1.01	0.0	57	370	24.6	570	112.4	1.12	-	0.05	14
10	26	385	17.2	675	75.5	1.19	100.0	-	-	-	-	-	-	-	37	384	19.3	686	90.9	1.17	-	-	11
11	18	415	20.1	809	135.1	1.12	100.0	5	447	14.8	1114	116.7	1.24	100.0	39	427	24.4	911	186.6	1.13	-	0.28	16
12	33	419	22.7	851	132.1	1.16	100.0	6	428	26.7	837	181.9	1.11	100.0	72	428	27.1	905	190.6	1.14	-	0.18	33
13	28	425	23.1	922	168.3	1.19	100.0	7	465	14.2	1167	183.4	1.15	100.0	64	440	27.2	1015	199.8	1.18	-	0.25	29
14	15	440	23.0	935	151.9	1.09	100.0	12	468	15.0	1177	85.8	1.15	100.0	49	459	27.8	1116	238.1	1.11	-	0.80	22
15	3	457	33.5	1193	140.1	1.26	100.0	13	476	25.0	1281	211.5	1.18	100.0	23	474	23.9	1297	193.6	1.21	-	4.33	7
16	1	502	-	1440	-	1.14	100.0	4	498	24.9	1442	244.7	1.15	100.0	7	495	22.9	1430	245.7	1.16	-	4.00	2
17	1	502	-	1350	-	1.07	100.0	-	-	-	-	-	-	-	5	507	32.5	1470	354.6	1.11	-	-	4
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	482	-	1250	-	1.12	-	-	1
Total	174						95.4	49						89.8	368						-	0.28	145
Mean	11.1[a]	403	36.3	770	212.0	1.15		13.5[a]	461	31.6	1156	249.2	1.16		11.9[a]	423	44.9	905	299.8	1.15			

[a] Indicates mean age.

Table 31. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by trap (upstream and downstream) from Mosquito Creek, 1975.

Age (Yr)	Males N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	Females N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	Combined N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	F/M Ratio	No. Unknown
7	1	373	-	640	-	1.23	100.0	-	-	-	-	-	-	-	4	351	19.4	478	124.5	1.08	-	-	3
8	11	258	23.0	678	104.8	1.05	81.8	-	-	-	-	-	-	-	15	375	20.9	467	91.2	1.03	-	-	4
9	51	373	23.7	588	125.1	1.13	94.1	4	376	15.6	585	92.6	1.10	25.0	71	372	24.1	582	120.7	1.12	-	0.08	16
10	36	389	21.0	699	112.0	1.19	100.0	1	458	-	1350	-	1.41	100.0	49	390	23.8	719	146.1	1.18	-	0.03	12
11	22	416	23.9	840	168.7	1.16	100.0	15	441	19.7	1098	188.7	1.27	100.0	56	428	25.1	951	206.6	1.17	-	0.68	19
12	42	414	25.9	903	173.6	1.18	100.0	21	448	26.7	1081	238.5	1.19	100.0	103	434	28.2	969	214.1	1.17	-	0.50	40
13	33	429	26.9	951	201.8	1.19	100.0	33	460	16.4	1175	146.9	1.20	100.0	97	466	26.4	1067	202.6	1.19	-	1.00	31
14	17	444	24.7	969	177.3	1.10	100.0	24	472	22.8	1274	209.9	1.20	100.0	64	463	28.5	1177	263.7	1.14	-	1.41	23
15	5	462	24.6	1256	168.6	1.28	100.0	17	483	27.5	1344	295.8	1.18	100.0	30	479	25.6	1344	248.3	1.21	-	3.40	8
16	1	502	-	1440	-	1.14	100.0	6	497	23.1	1480	207.2	1.21	100.0	9	495	22.2	1458	224.9	1.20	-	6.00	2
17	1	502	-	1350	-	1.07	100.0	2	521	2.8	1645	7.1	1.16	100.0	7	511	27.4	1520	301.9	1.12	-	2.00	4
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	482	-	1250	-	1.12	-	-	1
Total	220						97.7	123						97.6	506						-	0.56	163
Mean	11.1[a]	406	37.6	793	237.5	1.16		13.1[a]	461	31.5	1197	261.5	1.20		11.9[a]	430	45.2	962	317.4	1.16			

[a] Indicates mean age.

Table 32. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by trap (fish fence) from Mosquito Creek, 1974-75.

Age (yr)	Males N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	Females N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	Combined N	Length(mm) Mean	SD	Weight(g) Mean	SD	K	% Mat.	F/M Ratio	No. Unknown
7	2	389	22.6	745	280.2	1.26	100.0	-	-	-	-	-	-	-	5	362	29.4	552	198.4	1.12	-	-	3
8	19	368	27.9	574	148.5	1.14	89.5	-	-	-	-	-	-	-	23	365	26.4	550	159.6	1.12	-	-	4
9	64	376	22.6	620	166.3	1.16	95.3	6	384	19.8	652	145.2	1.14	50.0	86	375	23.5	611	134.9	1.15	-	0.09	16
10	48	390	23.9	727	137.1	1.21	100.0	12	452	33.5	1285	211.3	1.38	100.0	75	402	36.2	840	271.7	1.23	-	0.25	15
11	40	418	30.4	911	144.8	1.23	100.0	33	451	27.6	1244	268.3	1.33	100.0	95	434	31.8	1056	279.9	1.25	-	0.82	22
12	61	426	25.2	949	203.4	1.22	100.0	58	456	26.0	1233	263.9	1.28	100.0	164	440	29.0	1067	264.3	1.23	-	0.95	45
13	42	428	24.9	970	209.3	1.22	100.0	50	468	24.0	1298	250.9	1.26	100.0	125	450	29.6	1133	259.7	1.23	-	1.19	33
14	17	444	24.7	969	190.4	1.20	100.0	24	472	22.8	1274	209.9	1.20	100.0	64	463	28.5	1177	263.7	1.14	-	1.41	23
15	6	459	22.9	1255	150.8	1.30	100.0	20	483	25.6	1369	282.1	1.21	100.0	34	478	24.9	1356	240.9	1.23	-	3.33	8
16	1	502	-	1440	-	1.34	100.0	6	497	23.1	1480	207.2	1.21	100.0	9	495	22.2	1458	224.9	1.20	-	6.00	2
17	1	502	-	1350	-	1.07	100.0	2	521	2.8	1645	7.1	1.16	100.0	7	511	27.4	1520	301.9	1.12	-	2.00	4
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	482	-	1250	-	1.12	-	-	1
Total	301						98.3	211						98.6	688						-	0.70	176
Mean	11.0[a]	407	36.3	827	242.4	1.18		12.6[a]	462	31.1	1265	274.9	1.27		11.7[a]	431	43.9	1009	332.7	1.21			

[a]Indicates mean age.

Table 33. Mean fork length, mean weight, condition factor (K), sex ratio and maturity by age group for walleye caught by gillnet from the North Arm of Great Slave Lake, 1976-77.

Age	Males							Females							Combined								
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
(Yr)	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	258	16.9	180	31.6	1.04	-	-	5
4	1	300	-	250	-	0.92	-	1	278	-	220	-	1.02		11	274	19.4	223	43.4	1.07	-	1.00	9
5	10	287	16.1	263	47.4	1.10	-	2	290	7.8	260	28.3	1.07		40	288	17.2	249	55.3	1.03	-	0.20	28
6	8	360	20.4	491	65.3	1.05	-	-	-	-	-	-	-	-	16	341	27.8	437	88.2	1.09	-	-	8
7	39	371	19.4	575	96.5	1.12	-	3	380	7.6	630	43.6	1.15	-	55	367	20.6	561	98.3	1.13	-	0.77	13
8	44	386	21.8	663	121.4	1.14	-	21	401	17.0	749	137.5	1.15	-	67	390	22.0	688	132.6	1.15	-	0.48	2
9	38	405	18.9	670	227.3	1.13	-	28	424	24.0	869	145.3	1.14	-	68	412	23.7	798	145.6	1.13	-	0.74	2
10	12	427	21.9	891	122.2	1.14	-	11	440	25.9	1011	235.0	1.17	-	23	433	24.3	948	190.7	1.15	-	0.92	-
11	9	433	15.2	959	121.3	1.17	-	10	472	19.9	1219	184.9	1.15	-	19	454	26.5	1096	203.4	1.16	-	1.11	-
12	7	441	13.0	987	155.7	1.14	-	7	483	23.2	1318	217.4	1.16	-	14	462	28.2	1153	250.2	1.15	-	1.00	-
13	1	436	-	1100	-	1.33	-	1	466	-	1140	-	1.13	-	2	451	21.2	1120	28.3	1.23	-	1.00	-
14	2	472	25.4	1330	240.4	1.26	-	1	495	-	1300	-	1.07	-	3	479	62.5	1320	170.9	1.19	-	0.50	-
15	-	-	-	-	-	-	-	2	514	23.3	1540	226.2	1.13	-	2	514	23.3	1540	226.2	1.13	-	-	-
16	2	522	2.1	1670	42.4	1.18	-	-	-	-	-	-	-	-	2	522	21.2	1670	42.4	1.18	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	1	540	-	1880	-	1.19	-	-	-	-	-	-	-	-	1	540	-	1880	-	1.19	-	-	-
Total	174						-	87						-	328						-	0.50	67
Mean	7.2[a]	392	45.0	714	265.2	1.13		9.4[a]	428	46.1	928	295.3	1.14		8.1[a]	384	61.3	692	328.3	1.12			

[a] Indicates mean age.

Table 34. Mean fork length, mean weight, condition factor (K), maturity and sex ratio by age group for walleye caught by hoop and fyke nets from Mosquito Creek, 1978.

Age	Males							Females							Combined								
		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%		Length(mm)		Weight(g)			%	F/M	No.
(Yr)	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	N	Mean	SD	Mean	SD	K	Mat.	Ratio	Unknown
6	2	317	43.1	363	159.1	1.10	-	-	-	-	-	-	-	-	2	317	41.3	363	159.1	1.10	-	-	-
7	4	341	13.2	444	65.7	1.11	-	1	325	-	350	-	1.02	-	5	338	13.5	425	70.7	1.09	-	0.25	-
8	5	359	30.8	530	131.6	1.12	-	2	328	13.4	375	106.1	1.05	-	14	355	29.2	493	134.3	1.07	-	0.40	7
9	7	360	20.3	532	108.7	1.13	-	-	-	-	-	-	-	-	10	366	22.6	560	122.6	1.13	-	-	3
10	5	385	24.6	670	119.1	1.16	-	-	-	-	-	-	-	-	7	379	23.1	636	117.1	1.16	-	-	2
11	11	405	23.2	741	113.1	1.11	-	-	-	-	-	-	-	-	15	414	29.1	825	231.8	1.14	-	-	4
12	7	424	16.9	889	160.0	1.15	-	3	455	28.8	1192	298.3	1.24	-	12	441	29.4	1060	296.1	1.20	-	0.43	2
13	5	442	21.1	1040	143.2	1.20	-	2	455	77.8	1188	618.7	1.20	-	10	445	31.3	1073	245.9	1.20	-	0.40	3
14	5	460	25.2	1180	194.0	1.21	-	2	503	21.2	1538	159.1	1.21	-	11	485	34.2	1418	332.1	1.22	-	0.40	4
15	4	464	13.3	1250	150.0	1.25	-	1	552	-	2275	-	1.35	-	6	486	38.3	1492	435.5	1.27	-	0.25	1
16	2	490	7.1	1263	194.5	1.08	-	4	541	23.6	1844	167.6	1.17	-	10	518	27.8	1645	296.2	1.18	-	2.00	4
17	3	540	17.5	1942	246.6	1.23	-	1	572	-	2500	-	1.34	-	4	548	21.3	2081	344.2	1.26	-	0.33	-
18	1	491	-	1625	-	1.37	-	-	-	-	-	-	-	-	2	514	32.5	1800	247.5	1.32	-	-	1
Total	61						-	16						-	108						-	0.26	31
Mean	11.4[a]	412	56.9	864	398.0	1.16		13.1[a]	472	86.5	1392	678.5	1.19		11.7[a]	428	67.9	1005	520.5	1.17			

[a] Indicates mean age.

Table 35. Annual survival and mortality rates for walleye caught by various methods from Mosquito Creek and vicinity, 1973-78.

Gear	Year	Sex	Age Classes Used	N	Survival (S)	SE of S	Var. of S	Annual Mortality Rate (A) Where A = 1-S
Angling	1973	Combined	11-14	47	0.378	0.056	0.0031	0.622
	1974	Combined	11-13	32	0.296	0.068	0.0046	0.704
	1975	Combined	13-15	11	0.286	0.115	0.0133	0.714
	1976	Combined	10-13	51	0.333	0.054	0.0029	0.667
	1977	Combined	9-16	122	0.603	0.029	0.0008	0.397
	1978	Combined	11-16	44	0.616	0.046	0.0021	0.384
	1973-78	Male	10-17	266	0.565	0.020	0.0004	0.435
		Female	10-14	41	0.651	0.047	0.0022	0.349
		Combined	10-17	341	0.579	0.017	0.0003	0.421
Trap (Fence)	1974	Combined	12-15	93	0.228	0.041	0.0017	0.772
	1975	Combined	12-19	311	0.558	0.019	0.0004	0.442
	1974-75	Male	12-16	127	0.438	0.033	0.0011	0.562
		Female	12-17	160	0.547	0.027	0.0007	0.457
		Combined	12-17	403	0.515	0.017	0.0003	0.495
Gillnet	1976-77	Male	9-13	67	0.455	0.045	0.0020	0.545
		Female	9-13	57	0.500	0.047	0.0022	0.500
		Combined	9-13	126	0.470	0.032	0.0011	0.530
Trap (Fyke & Hoop)	1978	Combined	16-18	16	0.348	0.096	0.0092	0.652

Table 36. Fecundity of walleye sampled from Mosquito Creek, 1975.

Fish No.	Fork Length (mm)	Weight (g)	Age (yr)	Wet Ovary Weight (g)			No. Eggs Calculated			Actual Count		Error (%)	
				Total	Right	Left	Right	Left	Total	Right	Left	Right	Left
1	-	-	-	125	70	55	37,613	27,244	64,857	-	-	-	-
2	-	-	-	55	40	15	32,051	14,238	46,275	32,035	14,240	0.05	0.01
3	-	-	-	90	35	55	27,300	36,844	53,927	27,246	36,726	0.20	0.32
4	533	1760	16	180	-	-	-	-	76,961	-	-	-	-
5	473	1230	12	160	80	80	38,657	39,000	77,657	-	-	-	-
6	456	1200	11	135	55	80	31,005	43,758	74,763	-	-	-	-
7	442	1100	12	105	65	40	36,077	23,996	60,073	-	-	-	-
8	511	1786	12	140	90	50	44,427	25,420	69,847	-	-	-	-
9	458	1350	10	145	65	80	29,362	35,406	64,768	-	-	-	-
10	488	1480	13	175	80	95	40,032	46,628	86,660	-	-	-	-
11	449	1040	14	165	65	100	30,898	50,163	81,061	-	-	-	-
12	500	1560	15	150	65	85	29,094	39,180	68,274	-	-	-	-
13	519	1640	17	60	40	20	16,772	8,529	25,301	-	-	-	-
14	-	-	-	125	60	65	34,304	36,347	70,651	-	-	-	-
15	464	1180	12	65	35	30	22,474	20,961	43,460	22,502	20,958	0.13	0.01
Total	0.14	0.01	-	-	-	-	-	-	-	-	-	-	-
Mean	481	1393	13.1	125	60	60	32,147	30,051	63,863	-	-	0.13	0.11

Table 37. Mean length, mean weight, condition factor (K) and sex ratio by length interval for longnose sucker caught by trap (upstream and downstream) from Mosquito Creek, 1975.

Length Interval (mm)	Males						Females						Combined						F/M Ratio	No. Unknown
		Length (mm)		Weight (g)				Length (mm)		Weight (g)				Length (mm)		Weight (g)				
	N	Mean	SD	Mean	SD	K	N	Mean	SD	Mean	SD	K	N	Mean	SD	Mean	SD	K		
220-239	-	-	-	-	-	-	-	-	-	-	-	-	1	220	-	120	-	1.13	-	1
300-319	1	309	-	340	-	1.15	-	-	-	-	-	-	1	309	-	340	-	1.15	-	-
320-339	1	336	-	440	-	1.16	-	-	-	-	-	-	1	336	-	440	-	1.16	-	-
360-379	2	369	3.5	715	49.5	1.43	-	-	-	-	-	-	3	371	5.0	677	75.1	1.33	-	1
380-399	3	399	0.6	820	72.1	1.29	-	-	-	-	-	-	14	391	6.5	794	84.8	1.33	-	11
400-419	26	409	5.1	920	89.4	1.35	-	-	-	-	-	-	64	410	5.4	910	94.7	1.32	-	38
420-439	53	430	6.3	1062	111.9	1.33	7	432	6.3	1151	166.7	1.43	128	431	6.0	1040	114.5	1.30	0.13	68
440-459	74	449	5.4	1154	117.2	1.27	18	449	5.5	1202	162.9	1.33	166	450	5.5	1156	126.7	1.27	0.24	74
460-479	50	469	5.4	1212	100.8	1.28	39	470	6.0	1331	128.9	1.28	155	469	5.8	1304	118.8	1.27	0.78	66
480-499	12	487	6.6	1470	188.2	1.28	23	486	5.7	1509	160.9	1.32	73	487	6.1	1459	180.6	1.26	1.92	38
500-519	3	504	3.6	1567	189.3	1.22	13	506	4.4	1656	204.4	1.28	27	506	4.2	1599	185.0	1.24	0.23	11
520-539	-	-	-	-	-	-	4	523	3.8	1793	85.4	1.25	12	526	3.9	1898	228.7	1.31	-	8
540-559	-	-	-	-	-	-	2	543	1.4	2220	84.9	1.39	3	545	3.6	2180	91.7	1.35	-	1
Total	225						106						648						0.47	317
Mean		445	26.8	1148	206.5	1.30		475	24.5	1410	253.6	1.31		453	31.8	1201	264.4	1.28		

Table 38. Mean length, mean weight, condition factor (K), and sex ratio by length interval for round whitefish caught by trap (upstream and downstream) from Mosquito Creek, 1975.

Length Interval (mm)	Males						Females						Combined						F/M Ratio	No. Unknown
		Length(mm)		Weight(g)				Length(mm)		Weight(g)				Length(mm)		Weight(g)				
	N	Mean	SD	Mean	SD	K	N	Mean	SD	Mean	SD	K	N	Mean	SD	Mean	SD	K		
260-279	1	273	-	260	-	1.28	-	-	-	-	-	-	2	276	3.5	280	28.3	1.34	-	1
280-299	2	292	4.2	325	7.1	1.31	8	291	2.4	300	18.5	1.21	16	291	3.9	298	22.7	1.21	4.00	6
300-319	9	309	5.8	368	42.4	1.25	9	309	5.9	357	26.0	1.20	35	310	6.0	371	41.4	1.25	1.00	17
320-339	3	325	6.4	437	15.3	1.28	8	333	7.4	478	40.3	1.30	22	330	6.8	459	46.3	1.28	2.67	11
340-359	11	349	5.5	527	43.0	1.24	9	348	6.4	546	41.6	1.29	33	349	5.9	534	56.4	1.26	0.82	13
360-379	4	371	5.8	673	37.8	1.32	8	365	5.5	619	53.8	1.27	21	367	6.0	661	73.0	1.34	2.00	9
380-399	-	-	-	-	-	-	2	388	0.7	695	7.1	1.20	8	383	3.0	699	46.4	1.24	-	6
400-419	-	-	-	-	-	-	-	-	-	-	-	-	2	413	7.1	975	35.4	1.39	-	2
420-439	1	426	-	1020	-	1.32	1	420	-	920	-	1.24	3	428	9.7	997	68.1	1.27	1.00	1
Total	31						45						142						1.45	66
Mean		334	31.9	485	154.5	1.26		334	31.6	480	145.2	1.25		336	32.7	496	164.4	1.27		

Table 39. Mean length, mean weight, condition factor (K), and sex ratio by length interval for northern pike caught by trap (upstream and downstream) from Mosquito Creek, 1975.

Length Interval (mm)	Males						Females						Combined						F/M Ratio
		Length(mm)		Weight(g)				Length(mm)		Weight(g)				Length(mm)		Weight(g)			
	N	Mean	SD	Mean	SD	K	N	Mean	SD	Mean	SD	K	N	Mean	SD	Mean	SD	K	
260-279	1	262	-	130	-	0.72	1	262	-	130	-	0.72	2	262	0.0	130	0.0	0.72	1.00
380-399	-	-	-	-	-	-	1	394	-	420	-	0.69	1	394	-	420	-	0.68	-
420-439	2	429	10.6	515	120.2	0.65	1	439	-	980	-	1.16	3	432	9.6	670	281.6	0.82	0.50
460-479	3	466	10.4	653	20.1	0.65	-	-	-	-	-	-	3	466	10.4	653	23.1	0.65	-
480-499	1	496	-	860	-	0.71	2	492	-	780	-	0.66	3	493	2.3	807	46.2	0.67	2.00
500-519	4	508	8.5	925	37.9	0.71	1	505	-	820	-	0.64	5	508	7.5	904	57.3	0.69	0.25
520-539	1	523	-	940	-	0.66	3	532	7.5	1060	103.9	0.70	4	530	7.5	1030	103.9	0.69	3.00
540-559	1	540	-	1120	-	0.71	-	-	-	-	-	-	1	540	-	1120	-	0.71	-
580-599	-	-	-	-	-	-	2	591	0.0	1464	0.0	0.71	2	591	-	1464	-	0.71	-
600-619	-	-	-	-	-	-	1	600	-	1530	-	0.71	1	600	-	1530	-	0.71	-
680-699	1	690	-	2140	-	0.65	-	-	-	-	-	-	1	690	-	2140	-	0.65	-
700-719	-	-	-	-	-	-	1	700	-	2480	-	0.72	1	700	-	2480	-	0.72	-
720-739	-	-	-	-	-	-	1	727	-	2580	-	0.67	1	727	-	2580	-	0.67	-
Total	14						14						28						1.00
Mean		486	90.5	849	451.2	0.68		528	118.4	1186	688.8	0.73		507	105.6	1017	596.7	0.70	

Table 40. Summary of length-weight relationship statistics for miscellaneous fish species caught by trap from Mosquito Creek, 1975.

Species	Gear	Sex	N	Y-Intercept (a)	Slope (b)	S_b	95% of C.I. of b
Longnose Sucker	Trap-Upstream	Males	87	-4.1463	2.730	0.136	2.460 - 3.000
		Females	55	-4.0822	2.710	0.204	2.301 - 3.119
		Combined[a]	202	-4.3465	2.807	0.084	2.642 - 2.972
	Trap-Downstream	Males	138	-4.5179	2.853	0.109	2.639 - 3.067
		Females	51	-3.2898	2.392	0.274	1.842 - 2.942
		Combined	446	-4.2142	2.737	0.054	2.631 - 2.843
	Trap-Combined	Males	225	-4.2758	2.768	0.100	2.572 - 2.964
		Females	106	-4.0171	2.675	0.210	2.259 - 3.091
		Combined	648	-4.5290	2.862	0.054	2.756 - 2.968
White Sucker	Trap-Combined	Combined	12	-5.7313	3.348	0.251	2.789 - 3.907
Northern Pike	Trap-Combined	Males	14	-5.0588	2.959	0.092	2.759 - 3.159
		Females	14	-4.8690	2.898	0.163	2.543 - 3.253
		Combined	28	-5.0091	2.945	0.097	2.746 - 3.144
Round Whitefish	Trap-Combined	Males	31	-5.0044	3.042	0.144	2.748 - 3.336
		Females	45	-5.2886	3.153	0.110	2.931 - 3.375
		Combined	142	-5.3237	3.168	0.081	3.009 - 3.327

[a]Includes fish of unknown sex.

Table 41. Catch by species and mesh size from gillnet sets in the North Arm of Great Slave Lake, 1976-77.

Species		Mesh Size 1.5 in. 38 mm	2.5 64	3.5 89	4.5 114	5.5 140	Total
Walleye	No.	1	189	145	20	1	356
	%	0.3	53.1	40.7	5.6	0.3	61.8
Northern Pike	No.	2	100	37	3	-	142
	%	1.4	70.4	26.1	2.1	-	24.7
Lake Whitefish	No.	1	16	12	2	2	33
	%	3.0	48.5	36.4	6.1	6.1	5.7
White Sucker	No.	-	16	12	2	-	30
	%	-	53.3	40.0	6.7	-	5.2
Longnose Sucker	No.	-	2	6	1	-	10
	%	-	20.0	60.0	10.0	-	1.7
Inconnu	No.	-	3	3	-	-	6
	%	-	50.0	50.0	-	-	1.0
Total	No.	4	526	215	28	3	576

Table 42. Summary of fish enumerated during the spring counting fence operation in Mosquito Creek, 1975. Percentage values indicate composition of fish moving through upstream and downstream traps.

Date		Upstream Trap							Downstream Trap						
		Walleye	Longnose Sucker	Northern Pike	Round Whitefish	White Sucker	Arctic Grayling	Daily Totals	Walleye	Longnose Sucker	Northern Pike	Round Whitefish	White Sucker	Arctic Grayling	Daily Totals
May	17	6	-	2	12	-	-	20	79	-	1	1	-	-	81
	18	144	158	-	10	-	-	312	518	4	-	1	-	-	523
	19	415	261	-	1	2	-	679	650	7	3	-	3	-	663
	20	948	4264	6	12	35	-	5265	357	5	2	2	-	-	366
	21	618	2436	1	13	6	-	3074	314	5	2	-	-	-	321
	22	59	150	4	10	1	-	224	167	4	17	-	-	-	188
	23	50	323	2	22	-	-	397	402	1	4	3	-	-	410
	24	19	125	4	38	-	-	186	780	18	10	9	-	-	817
	25	1	7	2	7	-	1	18	741	85	5	2	-	-	833
	26	-	2	3	13	-	-	18	357	28	3	-	-	-	388
	27	1	6	5	6	-	-	18	36	-	-	2	-	-	38
	28	6	34	3	44	-	-	87	191	115	6	10	-	-	322
	29	1	20	-	3	1	-	25	27	40	-	6	-	-	73
	30	-	26	1	123	-	-	150	454	1359	4	21	-	-	1838
	31	-	4	-	120	-	-	124	137	791	1	2	-	-	931
June	1	-	10	1	34	1	-	46	1	18	-	1	-	-	20
	2	1	14	6	152	-	-	173	1	13	6	2	-	-	22
	3	-	6	4	2	-	-	12	3	155	-	37	22	-	217
	4	-	5	13	3	-	-	21	18	1485	10	19	39	-	1571
	5	-	1	2	20	3	-	26	10	173	10	1	19	-	213
	6	-	6	2	28	1	-	37	2	139	4	2	19	-	166
	7	1	2	7	-	-	-	10	18	1240	6	18	68	-	1350
	8	-	-	1	-	-	-	1	29	788	3	42	36	-	898
	9	-	-	2	-	-	-	2	55	246	10	35	19	-	365
	10	-	4	5	-	1	-	10	33	176	5	53	37	-	304
	11	-	1	1	-	-	-	2	17	246	11	56	34	-	364
	12	-	-	3	-	-	-	3	33	67	-	41	15	-	156
Totals		2270	7865	80	673	51	1	10940	5430	7208	123	366	311	-	13438
%		20.7	71.9	0.7	6.2	0.5	<0.1		40.4	53.6	0.9	2.7	2.3	-	

Table 43 Daily water temperatures and water levels recorded at the Mosquito Creek counting fence, 1975.

Date		Daily Water Temp. (°C) Max.	Min.	Mean	Water Level (cm) Max.	Min.	Mean
May	9	5.6	3.3	4.5	-	-	50.0
	10	5.6	3.3	4.4	49.0	48.5	49.0
	11	7.8	3.9	6.5	48.6	48.0	48.2
	12	7.8	2.8	4.4	48.0	47.6	47.7
	13	5.6	2.2	4.4	-	-	49.0
	14	3.9	2.2	3.1	48.6	47.5	48.2
	15	5.6	1.1	3.3	-	-	-
	16	5.6	3.3	3.7	51.0	50.0	50.7
	17	6.7	5.6	6.0	51.4	49.5	50.1
	18	7.8	4.4	6.1	-	-	-
	19	9.4	4.4	7.4	53.5	50.8	52.3
	20	10.6	7.8	9.6	53.3	50.2	52.0
	21	8.3	7.2	7.8	52.0	48.5	50.7
	22	11.7	8.9	11.4	55.2	49.0	51.2
	23	11.7	8.9	10.7	49.0	45.0	46.7
	24	10.0	4.4	7.6	29.0	24.4	26.5
	25	7.8	4.4	6.3	24.5	22.0	24.2
	26	11.1	3.3	6.2	25.4	20.8	23.2
	27	11.1	6.7	8.1	52.6	42.8	47.1
	28	12.2	6.7	8.9	65.7	59.0	63.2
	29	12.2	7.8	10.2	62.2	56.0	59.5
	30	12.2	8.9	10.4	53.8	52.8	53.4
	31	13.3	11.1	12.0	55.0	51.0	53.0
June	1	12.8	8.9	11.5	53.5	49.2	51.4
	2	15.6	10.0	12.6	60.3	58.0	59.3
	3	15.0	9.4	12.6	70.8	58.7	66.2
	4	14.4	10.6	12.8	70.9	62.8	66.8
	5	16.1	11.7	13.5	73.8	68.2	71.0
	6	17.8	11.7	14.3	59.2	52.5	55.5
	7	17.2	8.9	15.0	52.3	46.4	48.5
	8	18.3	13.3	16.4	39.6	39.2	39.4
	9	17.2	13.3	15.4	47.0	37.9	43.4
	10	18.3	11.7	16.3	56.6	49.5	52.8
	11	20.0	12.2	16.5	57.0	52.8	55.6
	12	16.7	14.4	15.6	61.6	57.4	59.5

Table 44 . Summary of fish enumerated during the spring counting fence operation (upstream only) in Mosquito Creek, 1974.

Date	Walleye	Northern Pike	Longnose Sucker	White Sucker	Arctic Grayling	Round Whitefish	Total
May 19	42	22	16	0	0	0	80
20	48	62	83	0	0	0	195
21	276	11	232	1	0	0	520
22	1554	65	2228	52	0	44	3943
23	466	19	1111	27	0	27	1650
24	209	3	44	3	0	41	300
25	63	2	58	0	0	7	130
26	20	0	0	0	0	0	20
Total	2678	184	3772	83	2	119	6838
%	39.2	2.7	55.2	1.2	< 0.1	1.7	-

Table 45. Summary of diel timing of the upstream migration of walleye in Mosquito Creek, 1975. Fish counted at times other than those indicated were included in the next check period. (-) indicates times not checked.

Date	Time Checks 0300	0600	1000	1200	2200	2400 hrs.	No. Fish
May 17	-	6	-	-	-	-	6
18	-	27	-	-	-	117	144
19	-	142	-	-	-	273	415
20	-	91	502	-	-	355	948
21	-	171	281	-	-	166	618
22	-	8	0	-	-	51	59
23	-	0	-	-	-	50	50
24	-	15	-	-	-	4	19
25	-	1	-	-	-	0	1
26	-	0	-	-	-	0	0
27	-	0	-	-	-	1	1
28	-	1	-	-	-	5	6
29	-	0	-	-	-	1	1
30	-	0	-	-	-	0	0
31	-	0	-	-	-	0	0
June 1	-	0	-	-	-	0	0
2	-	0	-	-	-	1	1
3	0	0	-	-	-	-	0
4	0	-	-	-	-	0	0
5	0	-	-	0	0	-	0
6	0	-	-	0	-	0	0
7	0	-	-	1	0	-	1
8	0	-	-	-	-	0	0
9	0	-	-	-	-	0	0
10	-	-	-	-	-	0	0
11	-	-	-	-	-	0	0
12	-	-	-	0	-	-	0
Total	0	462	783	1	0	1024	2270
%	-	20.4	34.5	<0.1	-	45.1	-

Table 46. Condition of walleye sampled during the Mosquito Creek spawning run, 1975. Spawning conditions were determined by examination of the gonads.

Date		Spawning Condition - Upstream								Spawning Condition - Downstream							
		Females				Males				Females				Males			
		N	% Mature	% Ripe	% Spent	N	% Mature	% Ripe	% Spent	N	% Mature	% Ripe	% Spent	N	% Mature	% Ripe	% Spent
May	17	-	-	-	-	4	-	100	-	1	100	-	-	45	4	96	-
	18	12	42	58	-	27	-	100	-	6	66	17	17	25	-	56	44
	19	27	15	81	4	2	-	100	-	4	-	100	-	22	5	95	-
	20	12	8	84	8	5	-	80	20	15	13	13	74	6	-	100	-
	21	9	-	100	-	1	-	100	-	8	13	13	74	2	-	100	-
	22	9	-	100	-	3	-	100	-	2	-	100	-	2	-	100	-
	23	6	-	100	-	3	33	100	-	7	14	43	43	9	-	67	33
	24	-	-	-	-	-	-	67	-	3	-	33	67	10	30	50	20
	25	-	-	-	-	-	-	-	-	-	-	-	-	21	-	71	29
	26	-	-	-	-	-	-	-	-	2	-	-	100	14	-	21	79
	27	1	-	100	-	-	-	-	-	1	-	100	-	1	-	100	-
	28	-	-	-	-	-	-	-	-	-	-	-	-	1	-	100	-
	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-	-	-	-	1	-	100	-
	31	-	-	-	-	-	-	-	-	-	-	-	-	9	-	22	78
June	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	2	-	-	100	1	-	-	100
	4	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	100
	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	100	-
	6	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	100
	7	-	-	-	-	-	-	-	-	-	-	-	-	3	-	33	67
	8	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	100
	9	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	100
	10	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	100
Totals		76				49				51				182			
%			13	84	3		2	96	2		18	29	53		3	68	29

Table 47. Summary of water temperatures, climatic conditions and observations of walleye in Mosquito Creek, 1976-78.

Date	1976 Water Temp. (°C) Max.	Min.	Mean	Observations	1977 Water Temp. (°C) Max.	Min.	Mean	Observations	1978 Water Temp. (°C) Max.	Min.	Mean	Observations
May 10	-	-	5.2	Walleye in Ck ♂♂	-	-	-	-	-	-	-	-
11	-	-	4.6	Rain and cold	-	-	-	-	-	-	-	-
12	-	-	7.4	♀ moving into Ck	-	-	-	-	-	-	-	-
13	-	-	-	Weather warm	4.6	-	4.6	Few walleye in Ck	-	-	-	-
14	-	-	7.8	Ripe ♀♀ in Ck	4.2	-	4.2	Walleye in Ck ♂♂	-	-	-	-
15	-	-	7.6	Walleye in pools	5.3	-	5.3	Walleye in Ck ♂♂	-	-	-	-
16	-	-	8.2	Spawning activity	-	-	-	Walleye biting	0.2	0.1	0.1	-
17	-	-	7.6	Walleye moving out	8.1	-	8.1	Weather warm	2.3	-	2.3	No walleye in Ck
18	-	-	-	-	9.7	9.3	9.7	-	4.9	4.0	4.0	No walleye in Ck
19	-	-	-	Few fish caught	6.0	5.8	6.0	♂♀ walleye in Ck	5.8	3.2	4.5	Few walleye
20	-	-	-	-	6.8	5.6	6.8	More ♂+♀ walleye	6.8	4.2	5.5	Few walleye
21	-	-	-	-	6.4	6.1	6.4	Spawning activity	6.4	4.7	5.0	Few walleye
22	-	-	-	-	5.4	5.0	5.4	-	6.2	3.6	4.5	Few walleye
23	-	-	-	Creel census ended	5.2	-	5.2	Creek turbid - few	6.9	3.0	5.0	♂♂ in Creek
24	-	-	-	-	5.4	4.3	5.4	anglers	7.5	3.7	5.2	♀♀ in Creek
25	-	-	-	-	-	-	-	Spent walleye-Ck mouth	8.1	-	7.4	Spawning activity
26	-	-	-	-	-	-	-	-	8.2	-	5.7	Spent walleye caught
27	-	-	-	-	-	-	-	No walleye caught	9.1	-	6.7	Spawning complete
28	-	-	-	-	-	-	-	Creel census ended	8.3	6.5	7.3	Walleye moving out
29	-	-	-	-	-	-	-	-	7.0	4.2	5.6	Creek turbid
30	-	-	-	-	-	-	-	-	7.3	5.0	5.0	Few walleye
31	-	-	-	-	-	-	-	-	-	-	-	Creel census ended

Table 48. Summary of diel timing of the upstream migration of longnose suckers in Mosquito Creek, 1975. Fish counted at times other than those indicated were included in the next time period. (-) indicates times not checked.

Date		Time Checks 0300	0600	1000	1200	2200	2400 hrs.	No. Fish
May	17	-	0	-	-	-	0	-
	18	-	83	-	-	-	75	158
	19	-	41	-	-	-	220	261
	20	-	156	3686	-	-	422	4264
	21	-	897	1235	-	-	304	2436
	22	-	49	0	-	-	101	150
	23	-	55	-	-	-	268	323
	24	-	78	-	-	-	47	125
	25	-	7	-	-	-	0	7
	26	-	2	-	-	-	0	2
	27	-	6	-	-	-	0	6
	28	-	16	-	-	-	18	34
	29	-	15	-	-	-	5	20
	30	-	0	-	-	-	26	26
	31	-	0	-	-	-	4	4
June	1	-	0	-	-	-	10	10
	2	-	0	-	-	-	14	14
	3	5	1	-	-	-	-	6
	4	4	-	-	-	1	-	5
	5	0	-	-	1	0	-	1
	6	3	-	-	3	-	0	6
	7	1	-	-	0	1	-	2
	8	0	-	-	-	0	-	0
	9	0	-	-	-	-	0	0
	10	1	-	-	-	-	3	4
	11	-	-	-	-	-	1	1
	12	-	-	-	0	-	-	0
Total		14	1406	4921	4	2	1518	7865
%		0.2	17.9	62.6	<0.1	<0.1	19.3	-

Table 49. Condition of longnose sucker sampled during the Mosquito Creek spawning run, 1975. Spawning conditions were determined by examination of the gonads.

Date	Spawning Condition - Upstream								Spawning Condition - Downstream							
	Females				Males				Females				Males			
	N	% Mature	% Ripe	% Spent	N	% Mature	% Ripe	% Spent	N	% Mature	% Ripe	% Spent	N	% Mature	% Ripe	% Spent
Nov. 17	-	-	-	-	18	-	100	-	-	-	-	-	-	-	-	-
18	4	-	100	-	10	-	100	-	-	-	-	-	-	-	-	-
19	4	-	100	-	19	11	79	-	2	100	-	-	2	50	-	50
20	4	50	50	-	12	-	100	-	-	-	-	-	-	-	-	-
21	7	29	71	-	15	33	67	-	-	-	-	-	-	-	-	-
22	9	33	67	-	2	-	100	-	-	-	-	-	-	-	-	-
23	10	10	90	-	1	-	100	-	-	-	-	-	-	-	-	-
24	-	-	-	-	3	-	100	-	-	-	-	-	-	-	-	-
25	4	-	100	-	1	-	100	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	100	-	3	-	-	100	3	-	67	33
27	6	-	100	-	1	-	100	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	100	-	-	-	-	-	-	-	-	-
29	-	-	-	-	2	-	100	-	-	-	-	-	-	-	-	-
30	4	-	100	-	1	-	100	-	3	-	-	100	-	-	-	-
31	3	-	100	-	-	-	100	-	6	-	-	100	11	-	46	54
June 1	-	-	-		1	-	100	-	-	-	-	-	-	-	-	-
2	-	-	-	-	1	-	100	-	1	-	-	100	7	-	-	100
3	-	-	-	-	-	-	-	-	4	-	-	100	10	-	10	90
4	-	-	-	-	-	-	-	-	3	-	33	67	15	-	27	73
5	-	-	-	-	-	-	-	-	3	-	33	67	10	-	-	100
6	-	-	-	-	-	-	-	-	5	-	-	100	16	-	-	100
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	5	-	-	100	12	-	-	100
9	-	-	-	-	-	-	-	-	3	-	25	75	17	-	-	100
10	-	-	-	-	-	-	-	-	3	-	-	100	11	-	-	100
11	-	-	-	-	-	-	-	-	3	-	-	100	9	-	-	100
12	-	-	-	-	-	-	-	-	6	-	-	100	12	-	-	100
Totals	55				87				52				135			
%		14	86	-		10	90	-		4	6	90		1	9	90

Table 50. Dates of tagging and recapture, location of recapture, distance travelled, elapsed time and length and weight differences for fish taggged in Mosquito Creek, 1973-78.

No.	Species	Tag Information			Recapture Information				Elapsed Time (Days)	Distance (km)		Change +		Annual Increment	
		Date (D/M/Y)	Length (mm)	Weight (g)	Location	Date (D/M/Y)	Length (mm)	Weight (g)		Direct	by Water	Length (mm)	Weight (g)	Length (mm)	Weight (g)
1	Walleye	17/5/75	351	600	Mosquito Creek	16/5/76	-	-	364	-	-	-	-	-	-
2	"	"	366	800	"	14/5/76	-	-	362	-	-	-	-	-	-
3	"	24/5/75	502	1350	"	"	-	-	355	-	-	-	-	-	-
4	"	"	426	950	"	"	-	-	355	-	-	-	-	-	-
5	"	26/5/75	466	1000	"	"	-	-	353	-	-	-	-	-	-
6	"	18/5/75	352	400	"	22/1/78	-	-	980	-	-	-	-	-	-
7	"	17/5/75	397	850	"	13/5/78	-	-	1091	-	-	-	-	-	-
8	"	22/5/74	446	1250	"	26/5/75	-	-	369	-	-	-	-	-	-
9	"	19/5/75	340	450	"	28/5/78	370	550	1104	-	-	-	-	-	-
10	"	17/5/75	356	600	"	26/5/78	400	1150	1104	-	-	+ 30	+100	+ 10	+ 33
11	"	21/5/75	360	600	"	27/5/78	398	-	1101	-	-	+ 44	+550	+ 15	+185
12	"	21/5/73	370	525	"	19/5/77	455	1075	1458	-	-	+ 38	-	+ 13	-
13	"	22/5/73	373	575	"	30/5/75	407	700	739	-	-	+ 85	+550	+ 21	+113
14	"	23/5/74	374	450	"	23/5/75	385	560	365	-	-	+ 30	+125	+ 15	+ 63
15	"	22/5/74	391	750	"	26/5/75	408	800	369	-	-	+ 11	+110	+ 11	+110
16	"	25/5/74	395	800	"	27/5/75	409	900	367	-	-	+ 17	+ 50	+ 17	+ 50
17	"	21/5/73	395	650	"	25/5/75	417	700	734	-	-	+ 9	+100	+ 9	+100
18	"	24/5/73	405	750	"	29/5/75	422	840	735	-	-	+ 22	+ 50	+ 11	+ 25
19	"	25/5/74	405	875	"	28/5/75	419	850	368	-	-	+ 17	+ 90	+ 9	+ 45
20	"	24/5/75	412	700	"	19/5/77	450	1100	725	-	-	+ 14	- 25	+ 14	- 25
21	"	26/5/75	414	700	"	18/5/77	448	1100	724	-	-	+ 38	+400	+ 19	+200
22	"	22/5/74	420	1000	"	26/5/75	438	950	368	-	-	+ 34	+400	+ 17	+200
23	"	24/5/74	420	810	"	30/5/75	432	950	373	-	-	+ 18	- 50	+ 18	- 50
24	"	25/5/75	425	850	"	19/5/77	458	1125	724	-	-	+ 12	+140	+ 12	+140
25	"	25/5/75	425	850	"	29/5/78	460	1150	1099	-	-	+ 33	+275	+ 17	+137
26	"	25/5/74	425	1000	"	30/5/75	435	950	370	-	-	+ 35	+300	+ 12	+100
27	"	17/5/75	426	-	"	27/5/78	460	-	1105	-	-	+ 10	- 50	+ 10	- 50
28	"	23/5/73	430	925	"	27/5/75	448	900	734	-	-	+ 34	-	+ 11	-
29	"	21/5/73	433	725	"	25/5/75	443	1000	734	-	-	+ 18	+ 25	+ 9	+ 13
30	"	"	435	800[a]	"	21/5/75	452	1100	730	-	-	+ 10	+275	+ 5	+137
31	"	23/5/74	445	1250	"	26/5/75	459	-	368	-	-	+ 17	+300	+ 9	+150
32	"	17/5/75	451	1150	"	26/5/78	585	-	1104	-	-	+ 14	-	+ 14	-
33	"	25/5/74	454	1150	"	19/5/75	483	1200	359	-	-	+134	-	+ 25	-
34	"	22/5/74	455	1200	"	29/5/75	465	1120	372	-	-	+ 29	+ 50	+ 29	+ 50
35	"	20/5/75	455	1200	"	28/5/78	521	-	1103	-	-	+ 10	- 80	+ 10	- 80
36	"	18/5/75	455	1200	"	19/5/77	483	1350	731	-	-	+ 66	-	+ 22	-
37	"	26/5/75	459	1000	Dufort River	26/5/77	498	1475	730	23	30	+ 28	+150	+ 14	+ 75
38	"	23/5/75	461	1100[a]	Mosquito Creek	27/5/78	525	-	1099	-	-	+ 39	+275	+ 19	+137
39	"	22/5/74	462	1350	"	20/5/75	483	1180	363	-	-	+ 64	-	+ 21	-
40	"	22/5/74	465	1300	"	30/5/75	483	1200	372	-	-	+ 19	-170	+ 19	-170
41	"	24/5/73	468	1125	"	30/5/75	468	1250	737	-	-	+ 18	-100	+ 18	-100
42	"	22/5/73	468	1200	Frank Channel	25/7/74	478	-	430	16	23	+ 0	+125	+ 0	+ 63
43	"	24/5/74	471	1400	Mosquito Creek	30/5/75	498	1350	373	-	-	+ 10	-	+ 10	-
44	"	"	487	1725	"	26/5/78	570	2050	1462	-	-	+ 27	- 50	+ 27	- 50
45	"	23/5/74	480	1450	"	20/5/75	483	-	360	-	-	+ 83	325	+ 21	+ 81
46	"	18/5/75	479	1600	"	27/5/78	535	-	1104	-	-	+ 3	-	+ 3	-
47	"	22/5/74	510	1900	"	29/5/75	527	1660	372	-	-	+ 56	-	+ 18	-
												+ 17	240	+ 17	-240

Table 50. Continued.

No.	Species	Tag Information			Recapture Information				Elapsed	Distance (km)		Change ±		Annual Increment	
		Date (D/M/Y)	Length (mm)	Weight (g)	Location	Date (D/M/Y)	Length (mm)	Weight (g)	Time (Days)	Direct	by Water	Length (mm)	Weight (g)	Length (mm)	Weight (g)
48	Walleye	23/5/73	427	775	Yellowknife Bay	3/9/73	-	-	104	96	127	-	-	-	-
49	"	22/5/73	420	750	"	24/8/73	-	-	94	97	110	-	-	-	-
50	"	25/5/74	420	840	Frank Channel	4/2/75	-	-	273	16	23	-	-	-	-
51	"	23/5/74	533	1850	"	12/6/74	-	-	20	16	23	-	-	-	-
52	"	21/5/74	516	1800	"	15/6/74	-	-	25	16	23	-	-	-	-
53	"	22/5/73	415	800	Marion Lake	9/6/75	-	-	748	16	23	-	-	-	-
54	"	23/5/74	455	1200	"	9/6/75	-	-	382	16	23	-	-	-	-
55	"	24/5/74	485	1625	Ptarmigan Point	8/8/76	-	-	779	84	90	-	-	-	-
56	"	25/5/74	348	700	Frank Channel	18/7/77	-	-	778	13	16	-	-	-	-
57	"	23/5/74	446	1100	Ptarmigan Point	15/8/77	-	-	1143	84	90	-	-	-	-
58	"	23/5/74	431	1000	Marion Lake	3/6/78	-	-	1471	16	23	-	-	-	-
59	"	22/5/74	412	1250	Ptarmigan Point	15/7/78	-	-	1494	84	90	-	-	-	-
60	"	23/5/74	468	1350	McIver Bay	21/8/78	-	-	1530	84	100	-	-	-	-
61	"	23/5/74	502	1700	Ptarmigan Point	15/7/78	-	-	1493	84	90	-	-	-	-
62	"	25/5/74	475	1275	"	"	-	-	1491	84	90	-	-	-	-
63	"	25/5/74	420	810	"	"	-	-	1491	84	90	-	-	-	-
64	"	21/5/75	515	1600	"	15/7/75	-	-	40	84	90	-	-	-	-
65	"	18/5/75	428	1000	Yellowknife Bay	15/8/75	-	-	74	97	110	-	-	-	-
66	"	22/5/75	450	1200	"	16/7/75	-	-	55	97	110	-	-	-	-
67	"	18/5/75	464	1200	Marion Lake	9/6/75	-	-	22	16	23	-	-	-	-
68	"	25/5/75	455	1000	"	9/6/75	-	-	15	16	23	-	-	-	-
69	"	19/5/75	471	1150	Frank Channel	9/6/75	-	-	21	13	16	-	-	-	-
70	"	17/5/75	382	800	Mosquito Creek	31/5/75	-	-	14	-	-	-	-	-	-
71	"	24/5/78	508	1675	McIvor Bay	21/8/78	-	-	89	84	100	-	-	-	-
72	"	"	485	1400	Wrigley Point	15/7/78	-	-	52	61	71	-	-	-	-
73	"	"	538	1925	Ptarmigan Point	"	-	-	52	84	90	-	-	-	-
74	"	"	520	2000	Wrigley Point	"	-	-	52	61	71	-	-	-	-
75	"	25/5/78	448	-	Wrigley Point	"	-	-	51	61	71	-	-	-	-
76	"	"	440	-	Mosquito Creek	25/5/78	-	-	1	-	-	-	-	-	-
77	"	"	505	-	McIver Bay	15/7/78	-	-	51	84	100	-	-	-	-
78	"	"	498	-	Ptarmigan Point	15/7/78	-	-	51	84	90	-	-	-	-
79	"	"	520	-	"	"	-	-	51	84	90	-	-	-	-
80	"	"	505	-	McIver Bay	21/8/78	-	-	88	84	100	-	-	-	-
81	"	"	454	-	Ptarmigan Point	15/7/78	-	-	51	84	90	-	-	-	-
82	"	"	474	-	"	"	-	-	51	84	90	-	-	-	-
83	"	"	473	-	"	"	-	-	51	84	90	-	-	-	-
84	"	"	510	-	Frank Channel	15/6/78	-	-	21	13	16	-	-	-	-
85	"	26/5/78	465	-	McIver Bay	21/8/78	-	-	87	84	100	-	-	-	-
86	"	"	535	-	Ptarmigan Point	15/7/78	-	-	50	84	90	-	-	-	-
87	"	"	480	-	Marion Lake	18/8/78	-	-	45	16	23	-	-	-	-
88	"	"	479	-	McIvor Bay	15/7/78	-	-	50	84	100	-	-	-	-
89	"	"	433	-	Frank Channel	15/6/78	-	-	21	13	16	-	-	-	-
90	"	"	493	-	Ptarmigan Point	15/7/78	-	-	50	84	90	-	-	-	-
91	"	"	496	-	"	"	-	-	50	84	90	-	-	-	-
92	"	"	495	-	"	"	-	-	50	84	90	-	-	-	-
93	"	"	470	-	McIvor Bay	21/8/78	-	-	87	84	100	-	-	-	-
94	"	"	475	-	Spruce Point	15/7/78	-	-	50	71	77	-	-	-	-

Table 50. Concluded.

No.	Species	Tag Information			Recapture Information				Elapsed Time (Days)	Distance (km)		Change +		Annual Increment	
		Date (D/M/Y)	Length (mm)	Weight (g)	Location	Date (D/M/Y)	Length (mm)	Weight (g)		Direct	by Water	Length (mm)	Weight (g)	Length (mm)	Weight (g)
95	Walleye	26/5/78	503	-	Wrigley Point	15/7/78	-	-	50	61	71	-	-	-	-
96	"	"	495	-	Spruce Point	"	-	-	81	71	77	-	-	-	-
97	"	27/5/78	430	-	Ptarmigan Point	"	-	-	49	84	100	-	-	-	-
98	"	"	510	-	Spruce Point	15/8/78	-	-	80	71	77	-	-	-	-
99	"	"	471	1375	"	"	-	-	80	71	77	-	-	-	-
100	"	28/5/78	496	-	Wrigley Point	15/7/78	-	-	48	61	71	-	-	-	-
101	"	"	483	-	Ptarmigan Point	"	-	-	48	84	90	-	-	-	-
102	"	"	483	-	"	09/1/78	-	-	95	84	90	-	-	-	-
103	"	"	498	-	Wrigley Point	15/7/78	-	-	48	61	71	-	-	-	-
104	"	"	494	-	Spruce Point	"	-	-	48	71	77	-	-	-	-
105	"	"	443	-	Wrigley Point	15/8/78	-	-	79	61	71	-	-	-	-
106	"	"	486	-	Spruce Point	"	-	-	79	71	77	-	-	-	-
107	"	"	467	-	McIver Bay	21/8/78	-	-	85	84	100	-	-	-	-
108	"	17/5/75	519	1700	Mosquito Creek	25/5/75	519	1600	8	-	-	-	-	-	-
109	"	"	455	1200	"	"	457	1100	8	-	-	-	-	-	-
110	"	23/5/75	459	1250	"	"	459	1150	2	-	-	-	-	-	-
111	"	18/5/75	423	1880	"	30/5/75	423	800	12	-	-	-	-	-	-
112	"	21/5/75	463	1380	"	25/5/75	464	1180	9	-	-	-	-	-	-
113	"	18/5/75	456	1200	"	25/5/75	456	1150	7	-	-	-	-	-	-
114	"	"	350	485	"	23/5/75	350	485	5	-	-	-	-	-	-
Total	114								-	-	-	-	-	-	-
Mean									412	62.4	69.4	30.6	149.3	14.6	48.1

[a] Captured in upstream trap.

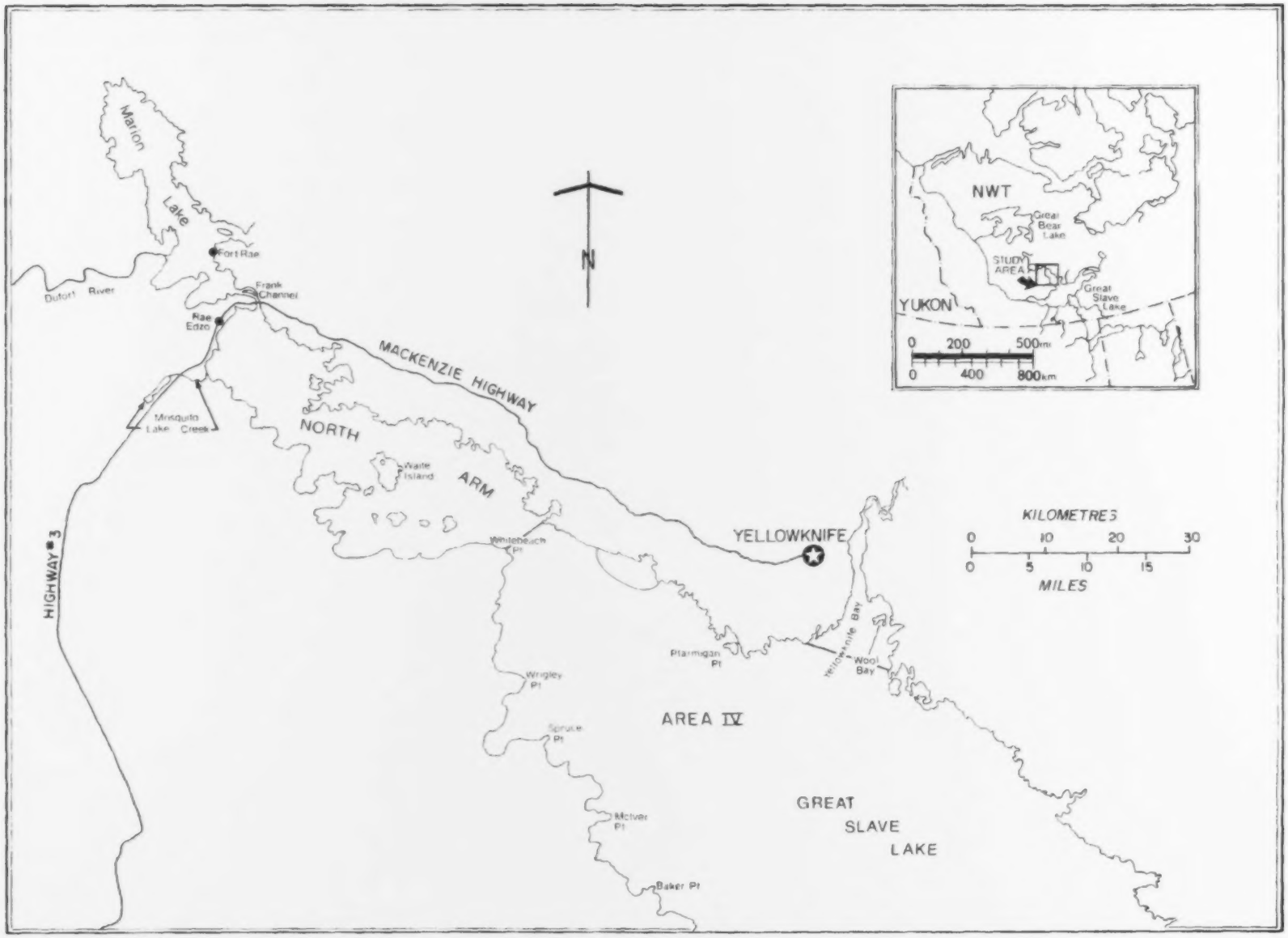

Fig. 1. Map of the North Arm of Great Slave Lake showing the location of Mosquito Creek.

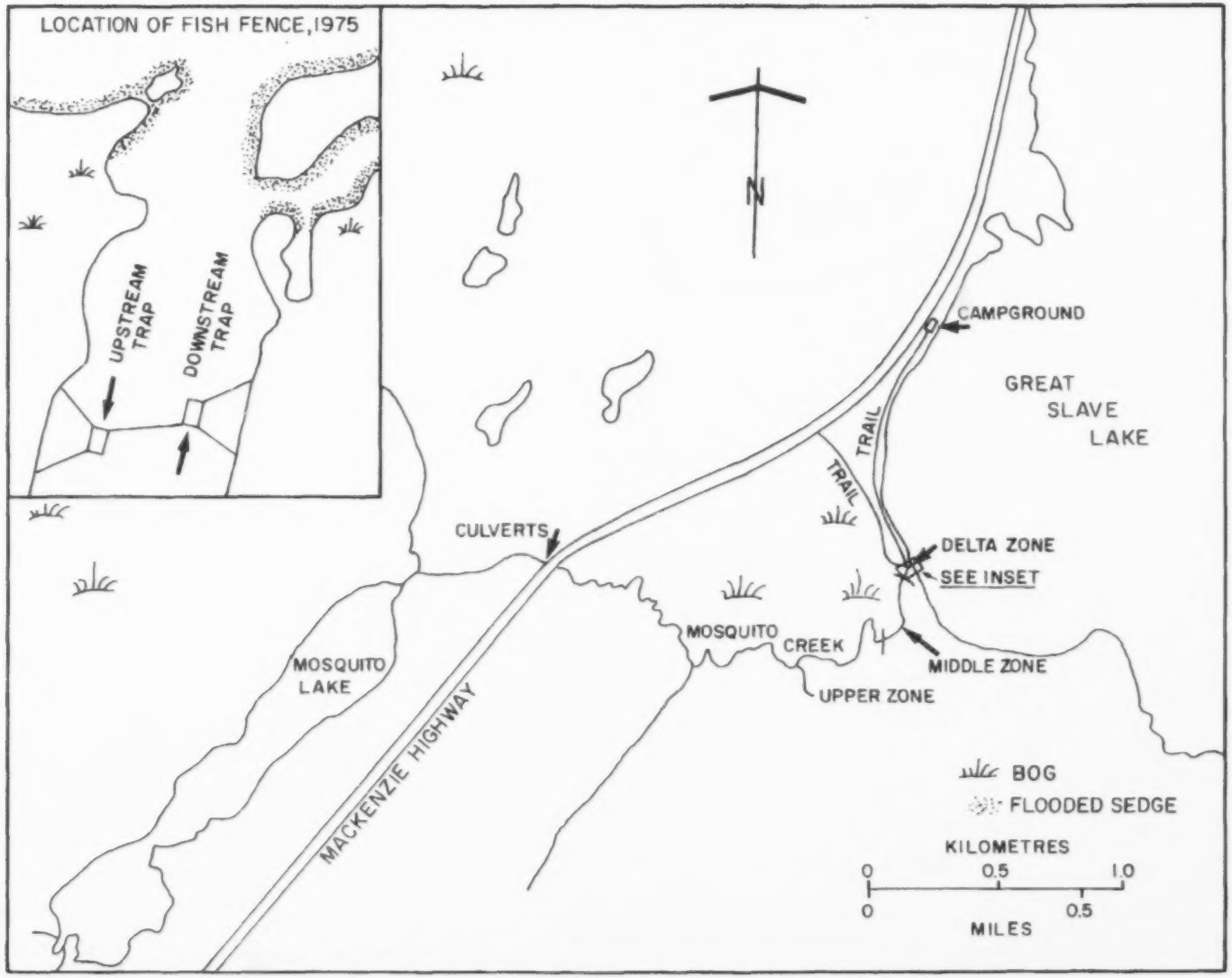

Fig. 2. Map of Mosquito Creek and immediate vicinity showing the fish fence location.

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